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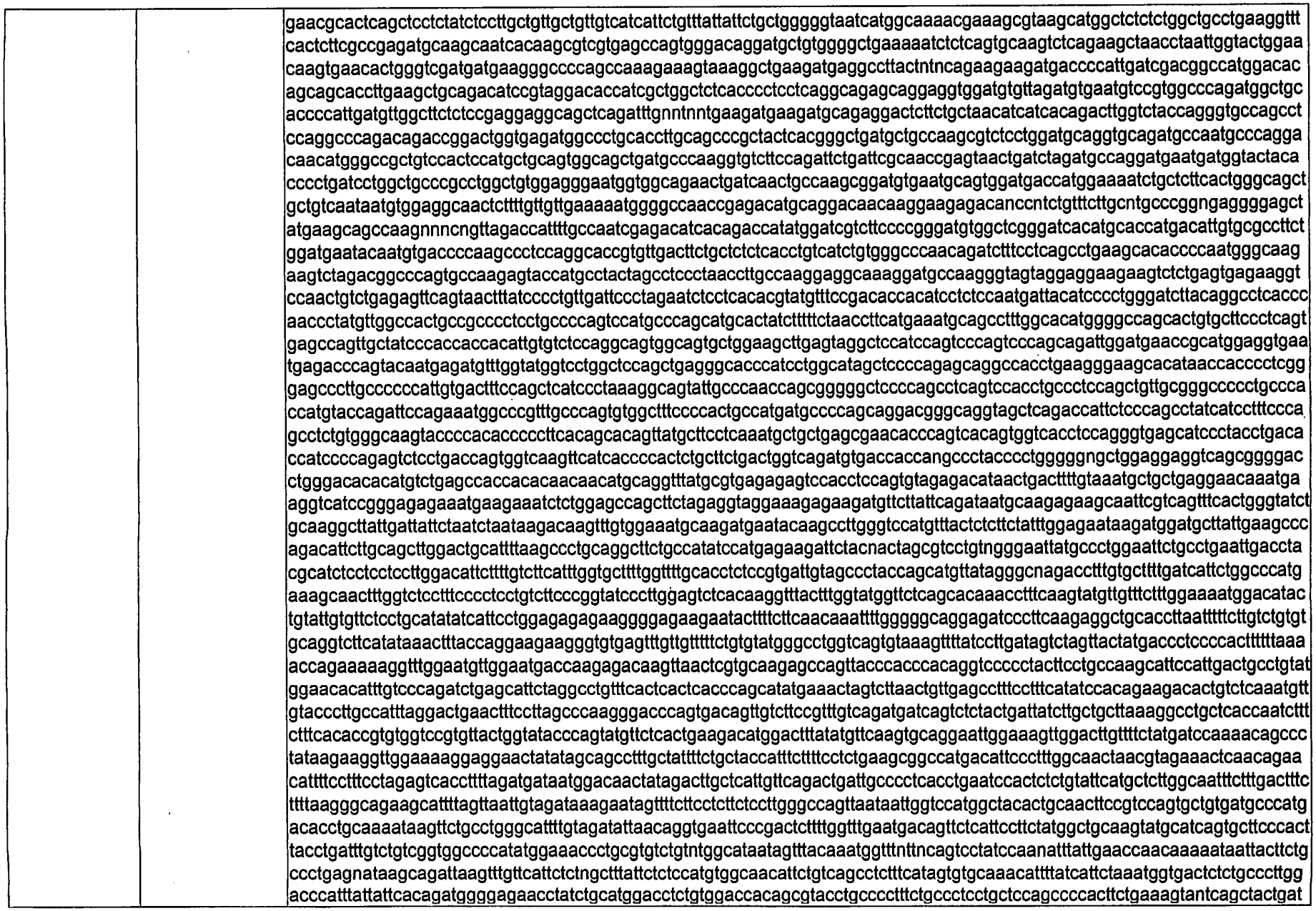
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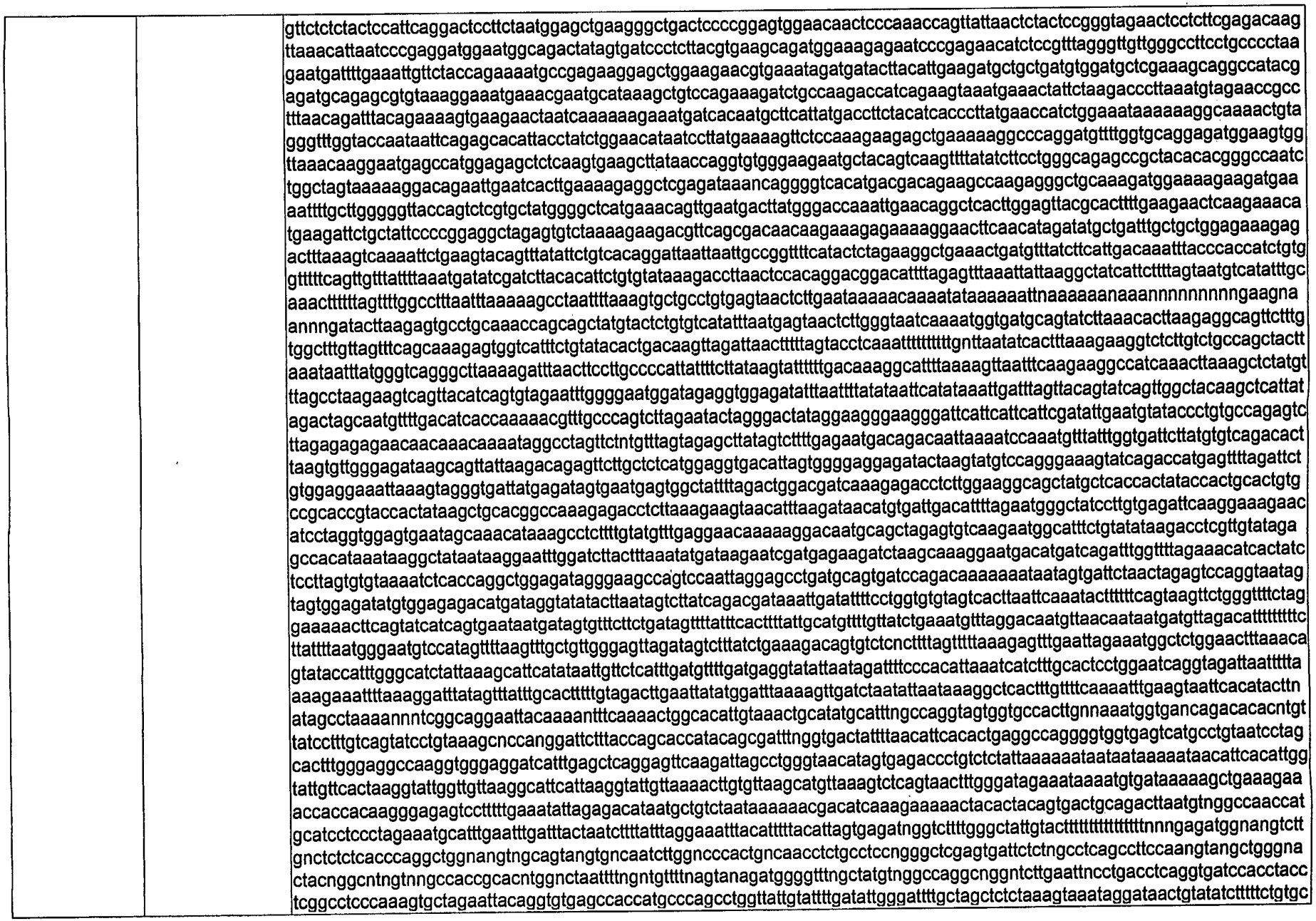
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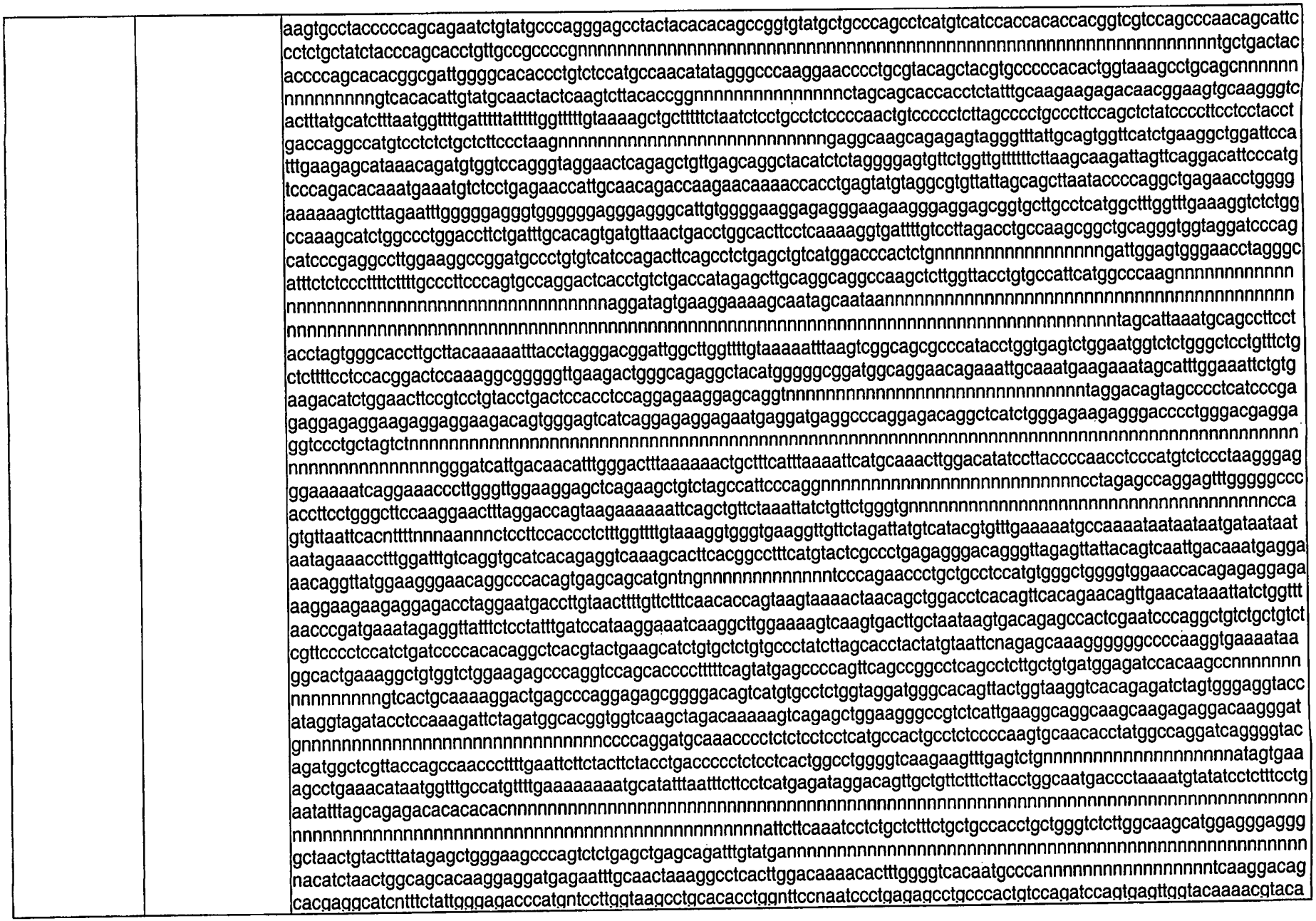
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Claims

1. A method of determining whether a patient sample contains leukemia cells or other cells comprising the steps of
a) determining the the expression profile of a group of markers in a patient sample and
b) concluding from expression profile whether the patient sample contains leukemia cells or other cells
characterized in
that the group of markers consists of markers selected independently from the markers listed in one or more of the tables 3 to 6, tables 15 to 20, tables 29, 30, 41, or 42 and whereby the number of markers in the group is between one and the total number of markers listed in the tables 3 to 6, tables 15 to 20, and tables 29, 30, 41, or 42.

2. The method according to claim 1
characterized in that
the number of markers in the group is between two and the total number of markers listed in the tables tables 3 to 6, tables 15 to 20, and tables 29, 30, 41, or 42.

3. The method according to claim 1 or 2
characterized in
that the group of markers consists of all markers listed in one or more tables, whereby the tables are selected from the tables 3 to 6, tables 15 to 20, and tables 29, 30, 41, or 42.

4. A method of determining whether a patient sample contains leukemia cells or other cells and at the same time or subsequently determining the type and subtype of leukemia cells, if leukemia cells are present, comprising the steps of
a) determining the expression profile of a group of markers in a patient sample and
b) concluding from the expression profile whether the patient sample contains leukemia cells or other cells and at the same time or subsequently determining the type and subtype of leukemia cells, if leukemia cells are present,
characterized in
that the group of markers consists of markers selected independently from the markers listed in one or more of the tables 16 to 20 or table 29 or 30 and whereby the number of markers in the group is between one and the total number of markers listed in the tables 16 to 20 or table 29 or 30.

5. The method according to claim 4
characterized in that
the number of markers in the group is between two and the total number of markers listed in the tables 16 to 20 or table 29 or 30.

6. The method according to claim 4 or 5
characterized in
that the group of markers consists of all markers listed in one or more tables, whereby the tables are selected from the tables 16 to 20 or table 29 or 30.

7. The method according to any of claims 4 to 6
characterized in
that it is differentiated between four types of leukemia cells in the patient sample and that the other cells are normal cells.

8. The method according to any of claims 1 to 7
characterized in that at least one marker is selected from the group consisting of
- *ADCY3,*
- adenosine deaminase (*ADA*),

- *ARGHGAP4,*
- B-cell, a specific coactivator of octamer binding transcription factors,
- *CAPN3,* a member of the papain superfamily,
- *CBFß-MYH11,*
- *CD24,*
- *CD27,*
- *CD74,*
- connective tissue growth factor (*CTGF*),
- *CTGF,*
- *CTSW,*
- *MYH11*
- glucocorticoid receptor beta
- *CBFA2T1* (formerly *ETO*)
- *HLA-DMB*
- *HOXA9*
- *HOXB5*
- *IRF4*, an immune system-restricted interferon regulatory factor
- *KIAA1013*
- *LCN2,* a modulator of inflammation
- *LEF-1*
- *MBNL*
- *MSF* translocation partner of the mixed-lineage leukemia gene (MLL) in AML
- *NCOA1,*
- *OS-9*
- Phospholipidscramblase 1 (*PLSCR1*)
- *POU2AF1*
- *POU2F2*
- *POU4F1*
- *SCYA3*
- *DEFA3, SGP28, CAMP, CLC*

- *SOCS-2 and*
- *TRB and CD3D*

9. A method of differentiating between two types of leukemia cells or one type of leukemia cells and normal cells or non-leukemia in a patient sample comprising the steps of
a) determining the expression profile of a group of markers in the patient sample and
b) concluding from the expression profile which type of leukemia cells the patient sample contains or whether it contains normal cells or non-leukemia characterized in
that the group of markers consists of markers selected independently from the markers listed in one or more of the tables 3 to 6 or tables 7 to 12 and whereby the number of markers in the group is between one and the total number of markers listed in the tables 3 to 6 or tables 7 to 12.

10. The method according to claim 9
characterized in that
the number of markers in the group is between two and the total number of markers listed in one or more of the tables 3 to 6 or tables 7 to 12.

11. The method according to claim 9 or 10
characterized in
that the group of markers consists of all markers listed in one or more of the tables 3 to 6 or tables 7 to 12.

12. A method of differentiating between the subtypes of AML cells or the subtypes of AML cells and normal cells in a patient sample comprising the steps of
a) determining the expression profile of a group of markers in the patient sample and
b) concluding from the expression profile which subtypes of AML cells the patient

sample contains or whether it contains normal cells
characterized in
that the group of markers consists of markers selected independently from the markers listed in one or more of the tables 1, 2, 13, 14, 17, 25, 27, 35 and 36and whereby the number of markers in the group is between one and the total number of markers listed in one or more of the tables 1, 2, 13, 14, 17, 25, 27, 35 and 36.

13. The method according to claim 12
characterized in that
the number of markers in the group is between two and the total number of markers listed in the tables 1, 2, 13, 14, 17, 25, 27, 35 and 36.

14. The method according to claim 12 or 13
characterized in
that the group of markers consists of all markers listed in one or more of the tables 1, 2, 13, 14, 17, 25, 27, 35 and 36.

15. The method according to any of claims 12 to 14
characterized in
that three, four or more subtypes of AML cells are determined.

16. A method of assessing the efficacy of a test compound for inhibiting leukemia, the method comprising comparing the expression profile of a group of markers in a first sample obtained from the patient and maintained in the presence of the test compound and the expression profile of a group of markers in a second sample obtained from the patient and maintained in the absence of the test compound, wherein a significantly altered expression profile of the group of markers in the first sample, relative to the second sample, is an indication that the test compound is efficacious for inhibiting leukemia in the patient
characterized in
that the group of markers consists of markers selected independently from the

markers listed in one or more of the tables 1 to 20, tables 25 or 27 or tables 29, 30, 32, 33, 35, 36, 38, 39, 41, 42 and whereby the number of markers in the group is between one and the total number of markers listed in the tables 1 to 20, tables 25 or 27 or tables 29, 30, 32, 33, 35, 36, 38, 39, 41, 42.

17. A method of assessing the efficacy of a therapy for inhibiting leukemia in a patient, the method comprising comparing the expression profile of a group of markers in a first sample obtained from the patient prior to providing at least a portion of the therapy to the patient and the expression profile of a group of markers in a second sample obtained from the patient following provision of the portion of the therapy, wherein a significantly altered expression profile of the marker(s) in the second sample, relative to the first sample, is an indication that the therapy is efficacious for inhibiting leukemia in the patient
characterized in
that the group of markers consists of markers selected independently from the markers listed in one or more of the tables 1 to 20, tables 25 or 27 or tables 29, 30, 32, 33, 35, 36, 38, 39, 41, 42 and whereby the number of markers in the group is between one and the total number of markers listed in the tables 1 to 20, tables 25 or 27 or tables 29, 30, 32, 33, 35, 36, 38, 39, 41, 42.

18. A method of selecting a composition for inhibiting leukemia in a patient, the method comprising:
a) separately maintaining aliquots of cells of a patient sample in the presence of a plurality of test compositions;
c) comparing the expression profile of a group of markers in each of the aliquots, and
d) selecting one of the test compositions which induces an altered expression profile of the group of markers in the aliquot containing that test composition, relative to other test compositions
characterized in
that the group of markers consists of markers selected independently from the

markers listed in one or more of the tables 1 to 20, tables 25 or 27 or tables 29, 30, 32, 33, 35, 36, 38, 39, 41, 42 and whereby the number of markers in the group is between one and the total number of markers listed in the tables 1 to 20, tables 25 or 27 or tables 29, 30, 32, 33, 35, 36, 38, 39, 41, 42.

19. A method of determining new subtypes of leukemia cells, the method comprising:
a) determining the expression profile of a group of markers of leukemia cells of unknown subtype
b) comparing the expression profile of said leukemia cells of ??? subtype to the expression profile of a group of markers of leukemia cells of known subtype(s), thereby concluding that a new subtype is determined when the expression profile is different to all known subtypes,
characterized in
that the group of markers consists of markers selected independently from the markers listed in one or more of the tables 1 to 20, tables 25 or 27 or tables 29, 30, 32, 33, 35, 36, 38, 39, 41, 42 and whereby the number of markers in the group is between one and the total number of markers listed in the tables 1 to 20, tables 25 or 27 or tables 29, 30, 32, 33, 35, 36, 38, 39, 41, 42.

20. A method for guiding the therapy of leukemia in a patient depending on the leukemia subtype and/or the risk of relapse of disease, the method comprising:
a) determining the expression profile of a group of markers in the patient sample, and
b) deciding about the therapy strategy depending on the leukemia subtype and/or the risk of relapse of disease
characterized in
that the group of markers consists of markers selected independently from the markers listed in one or more of the tables 1 to 20, tables 25 or 27 or tables 29, 30, 32, 33, 35, 36, 38, 39, 41, 42 and whereby the number of markers in the group is between one and the total number of markers listed in the tables 1 to 20, tables 25

or 27 or tables 29, 30, 32, 33, 35, 36, 38, 39, 41, 42.

21. A method for monitoring the progression of leukemia in a patient, the method comprising:

a) determining the expression profile of a group of markers in a patient sample at a first point in time, and

b) repeating step a) at a subsequent point in time; and

c) comparing the expression profile detected in steps a) and b) , and therefrom monitoring the progression of leukemia in the patient,

characterized in

that the group of markers consists of markers selected independently from the markers listed in one or more of the tables 1 to 20, tables 25 or 27 or tables 29, 30, 32, 33, 35, 36, 38, 39, 41, 42 and whereby the number of markers in the group is between one and the total number of markers listed in the tables 1 to 20, tables 25 or 27 or tables 29, 30, 32, 33, 35, 36, 38, 39, 41, 42.

22. The method of claim 21, wherein between the first point in time and the subsequent point in time, the patient has undergone chemotherapy.

23. The method according to any of the claims 1 to 22, wherein a transcribed polynucleotide or portion thereof is the marker or at least one of the markers.

24. The method of claim 23, wherein the transcribed polynucleotide is a mRNA.

25. The method of claim 23, wherein the transcribed polynucleotide is a cDNA.

26. The method according to any of claims 23 to 25, wherein the step of determining the expression profile further comprises amplifying the transcribed polynucleotide.

27. The method according to any of the claims 23 to 26, wherein the expression profile of the group of transcribed polynucleotides is determined by annealing the

transcribed polynucleotides with a complementary polynucleotide or a portion thereof under stringent hybridization conditions.

28. The method according to any of the claims 1 to 27, wherein the patient sample is blood or bone marrow.

29. The method according to any of the claims 1 to 22, wherein a protein is the marker or at least one of the markers.

30. The method of claim 29, wherein the expression profile of the proteins is detected using a reagent which specifically binds to one of the proteins.

31. The method of claim 30, wherein the reagent is selected from the group consisting of an antibody, an antibody derivative, and an antibody fragment.

32. The method according to any of claims 16 to 31
characterized in that
the number of markers in the group is between two and the total number of markers listed in the tables 1 to 20, tables 25 or 27 or tables 29, 30, 32, 33, 35, 36, 38, 39, 41, 42.

33. The method according to any of claims 16 to 32
characterized in
that the group of markers consists of all markers listed in one or more of the tables 1 to 20, tables 25 or 27 or tables 29, 30, 32, 33, 35, 36, 38, 39, 41, 42.

34. A kit for assessing the suitability of each of a plurality of compounds for inhibiting leukemia in a patient, the kit comprising:
a) (optionally) a plurality of compounds; and
b) a reagent for assessing the expression profile of a group of markers

characterized in
that the group of markers consists of markers selected independently from the markers listed in one or more of the tables 1 to 20, tables 25 or 27 or tables 29, 30, 32, 33, 35, 36, 38, 39, 41, 42 and whereby the number of markers in the group is between one and the total number of markers listed in the tables 1 to 20, tables 25 or 27 or tables 29, 30, 32, 33, 35, 36, 38, 39, 41, 42.

35. A kit for assessing whether a patient is afflicted with leukemia, the kit comprising reagents for assessing the expression profile of a group of markers
characterized in
that the group of markers consists of markers selected independently from the markers listed in one or more of the tables 1 to 20, tables 25 or 27 or tables 29, 30, 32, 33, 35, 36, 38, 39, 41, 42 and whereby the number of markers in the group is between one and the total number of markers listed in the tables 1 to 20, tables 25 or 27 or tables 29, 30, 32, 33, 35, 36, 38, 39, 41, 42.

36. A kit for assessing the presence of human leukemia cells, the kit comprising an antibody, wherein the antibody specifically binds with a protein corresponding to a marker
characterized in
that the marker is selected from the tables 1 to 20, tables 25 or 27 or tables 29, 30, 32, 33, 35, 36, 38, 39, 41, 42.

37. A kit for assessing the leukemia cell carcinogenic potential of a test compound, the kit comprising leukemia cells and a reagent for assessing expression of a marker, wherein the marker is selected from the tables 1 to 20, tables 25 or 27 or tables 29, 30, 32, 33, 35, 36, 38, 39, 41, 42.

38. A protein or mRNA, cDNA or cRNA corresponding to a marker selected from the tables 1 to 20, tables 25 or 27 or tables 29, 30, 32, 33, 35, 36, 38, 39, 41, 42 for the treatment of leukemia.

39. A method for the preparation of a pharmaceutical composition for the treatment of leukemia
characterized in
that a protein corresponding to a marker selected from the tables 1 to 20, tables 25 or 27 or tables 29, 30, 32, 33, 35, 36, 38, 39, 41, 42 is admixed with pharmaceutical compounds.

40. A method for the preparation of a pharmaceutical composition for the treatment of leukemia
characterized in
that a vector comprising a polynucleotide encoding a protein corresponding to a marker selected from the tables 1 to 20, tables 25 or 27 or tables 29, 30, 32, 33, 35, 36, 38, 39, 41, 42 is admixed with pharmaceutical compounds.

41. A method for the preparation of a pharmaceutical composition for the treatment of leukemia
characterized in
that an antisense oligonucleotide complementary to a polynucleotide encoding a protein corresponding to a marker selected from the tables 1 to 20, tables 25 or 27 or tables 29, 30, 32, 33, 35, 36, 38, 39, 41, 42 is admixed with pharmaceutical compounds.

42. Use of a marker or a group of markers selected individually from one or more of the tables 1 to 20, tables 25 or 27 or tables 29, 30, 32, 33, 35, 36, 38, 39, 41, 42 for the determination of leukemia cells, the type or subtype of leukemia cells.

43. Use of a marker or a group of markers selected individually from one or more of the tables 1, 2, 13, 14, 17, 25, 27, 35 or 36for the determination of the subtype of AML cells.

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44. A composition comprising a group of markers and substances chemically different to the markers
characterized in
that the group of markers consists of markers selected independently from the markers listed in one or more of the tables 1 to 20, tables 25 or 27 or tables 29, 30, 32, 33, 35, 36, 38, 39, 41, 42 and whereby the number of markers in the group is between one and the total number of markers listed in the tables 1 to 20, tables 25 or 27 or tables 29, 30, 32, 33, 35, 36, 38, 39, 41, 42.

45. The composition according to claim 44
characterized in
that the group of markers consists of all markers listed in one or more of the tables 1 to 20, tables 25 or 27 or tables 29, 30, 32, 33, 35, 36, 38, 39, 41, 42.

46. The composition according to claim 45
characterized in
that the group of markers consists of all markers listed in one or more of the tables 14 or tables 16 to 20 or table 29 or 30.

47. The composition according to claim 46
characterized in
that the group of markers consists of all markers listed in the tables 16 to 20 or table 29 or 30.

48. The composition according to claim 44 to 47
characterized in
that the markers are polynucleotides or oligonucleotides and are bound to a solid phase in the form of an array.

49. A method of determining the subtypes of ALL cells in a patient sample comprising the steps of

a) determining the level of expression of a group of markers in the patient sample and

b) concluding from the differences in the level of expression which subtypes of ALL cells the patient sample contains

characterized in

that the group of markers consists of markers selected independently from the markers listed in one or more of the tables 18, 32 or 33 and whereby the number of markers in the group is between two and the total number of markers listed in the tables 18, 32 or 33.

50. The method according to claim 49

characterized in

that the group of markers consists of all markers listed in one or more of the tables 18, 32 or 33.

51. A method of determining the subtypes of CLL cells in a patient sample comprising the steps of

a) determining the level of expression of a group of markers in the patient sample and

b) concluding from the differences in the level of expression which subtypes of CLL cells the patient sample contains

characterized in

that the group of markers consists of markers selected independently from the markers listed in one or more of the tables 38 or 39 and whereby the number of markers in the group is between two and the total number of markers listed in the tables 38 or 39.

52. The method according to claim 51

characterized in

that the group of markers consists of all markers listed in one or more of the tables

38 or 39.

53. A method of determining whether a patient sample contains leukemia cells or other cells and at the same time determining the type and subtype of leukemia cells, comprising

a) providing a patient sample,

b) isolating RNA from the patient sample, transcribing the RNA into cDNA and transcribing the cDNA into cRNA while simultaneously labelling the cRNA

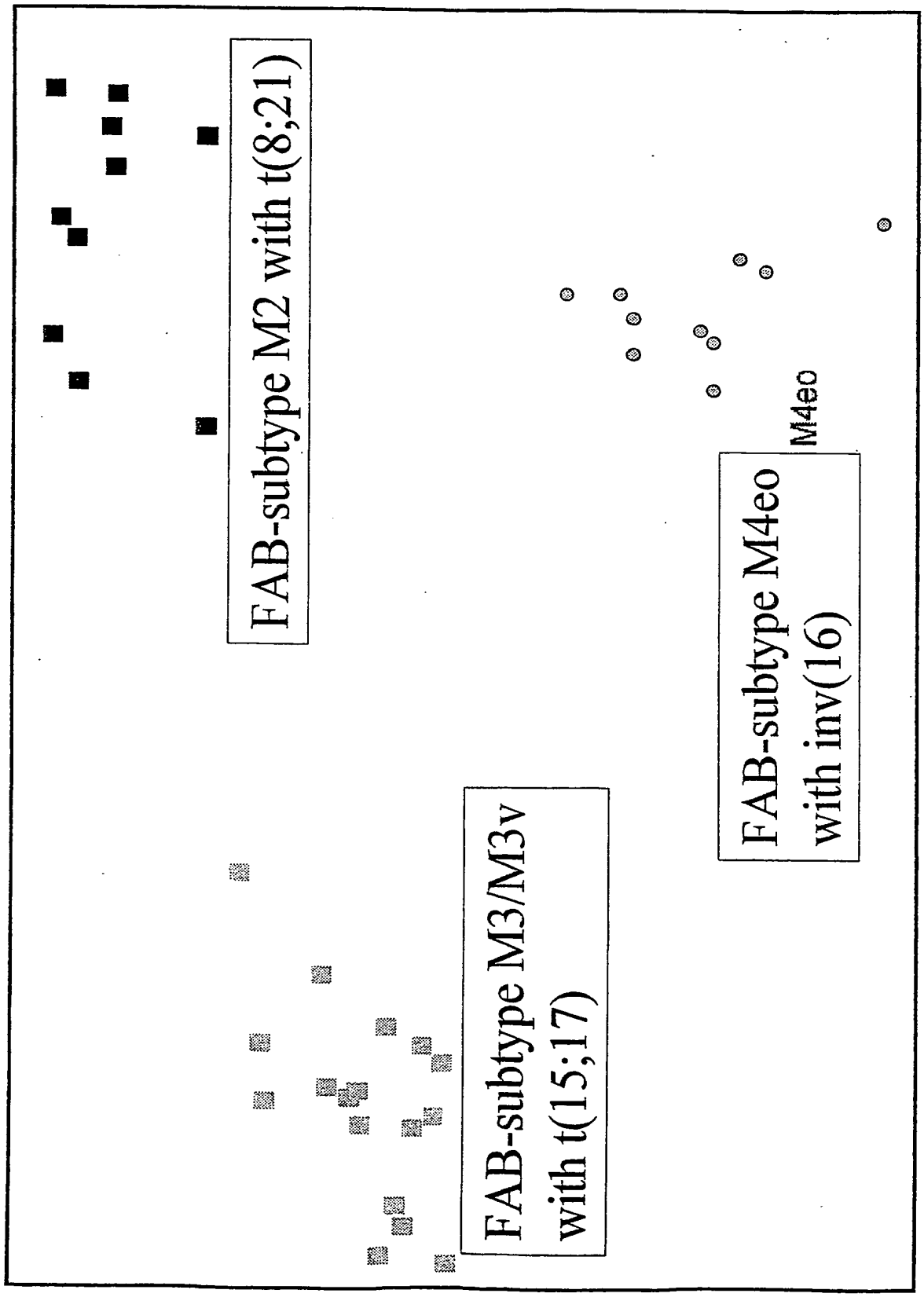
c) hybridising the cRNA to a microarray having attached thereto a group of markers selected from the group listed in one or more of the tables 1 to 20, tables 25 or 27 or tables 29, 30, 32, 33, 35, 36, 38,. 39, 41, 42 and whereby the number of markers in the group is between two and the total number of markers listed in the tables 1 to 20, tables 25 or 27 or tables 29, 30, 32, 33, 35, 36, 38,. 39, 41, 42, and

d) determining the level of expression of a marker or a group of markers.

54. Use of a marker or a group of markers selected from the group of members contained in the appended tables for determining whether a patient sample contains leukemia cells or other cells.

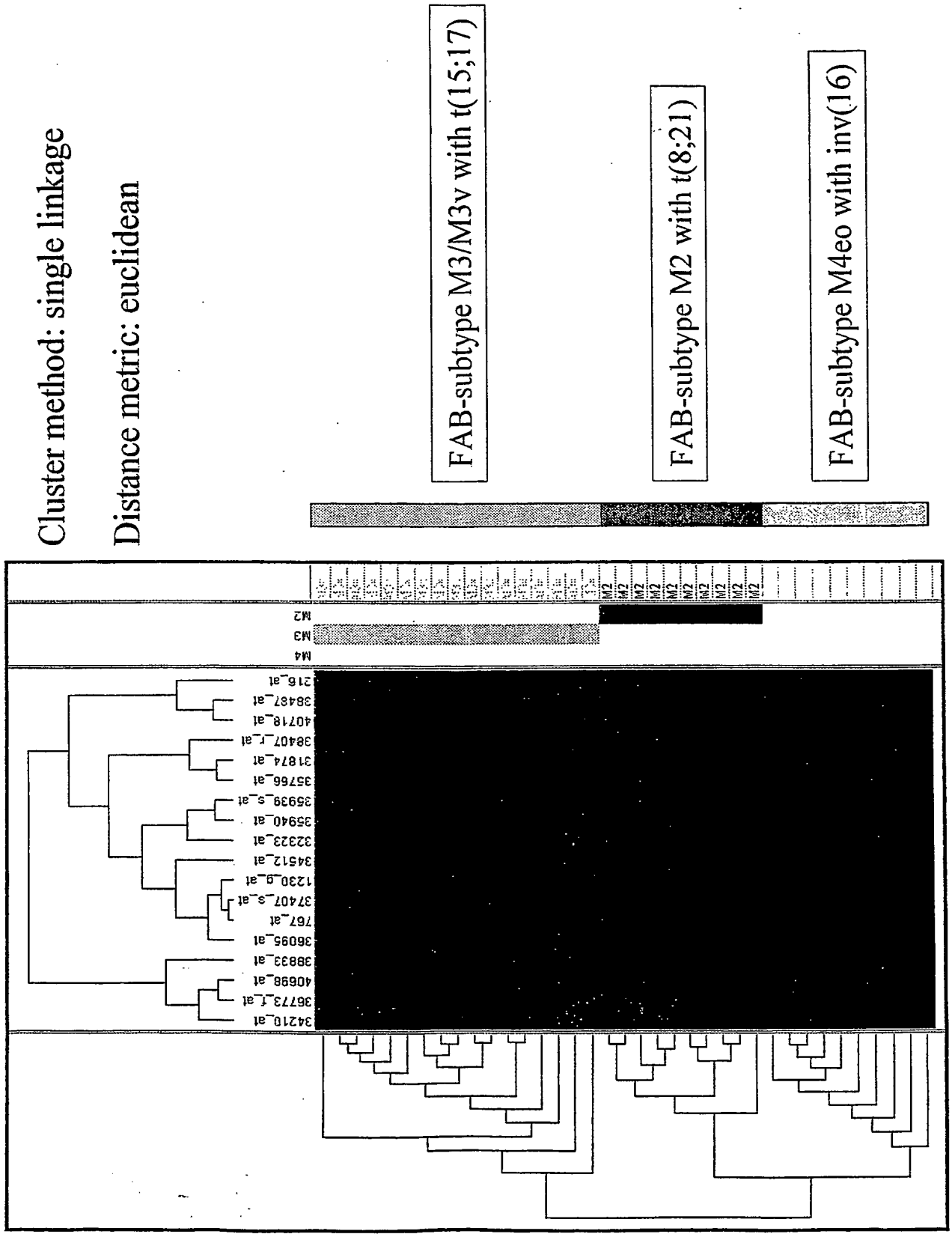
55. Use of claim 54 wherein said determination comprises the simultaneous determination of the type and subtype of leukemia cells.

Figure 1a Principal Component Analysis



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Figure 1b Hierarchical Cluster Analysis



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Figure 2 Classification Accuracy

accuracy	t(15;17) - t(8;21)	t(15;17) - inv(16)	inv(16) - t(8;21)	t(8;21) - R	t(15;17) - R	inv(16) - R
U78556						1.00
M98539					1.00	
Y07846				1.00		
M63582				1.00		
N90866		1.00				
J03853			1.00	1.00		
M26326	1.00			1.00		
L20433			1.00	1.00		
X64624	1.00		1.00	1.00		
N99340			1.00			1.00
M81141	1.00				1.00	
AF013570			1.00			1.00
AI207842		1.00			1.00	1.00
D87433	1.00			1.00		
X00457	1.00					
X96719		1.00			1.00	
AF013611	1.00			1.00		
AF001548			1.00			1.00

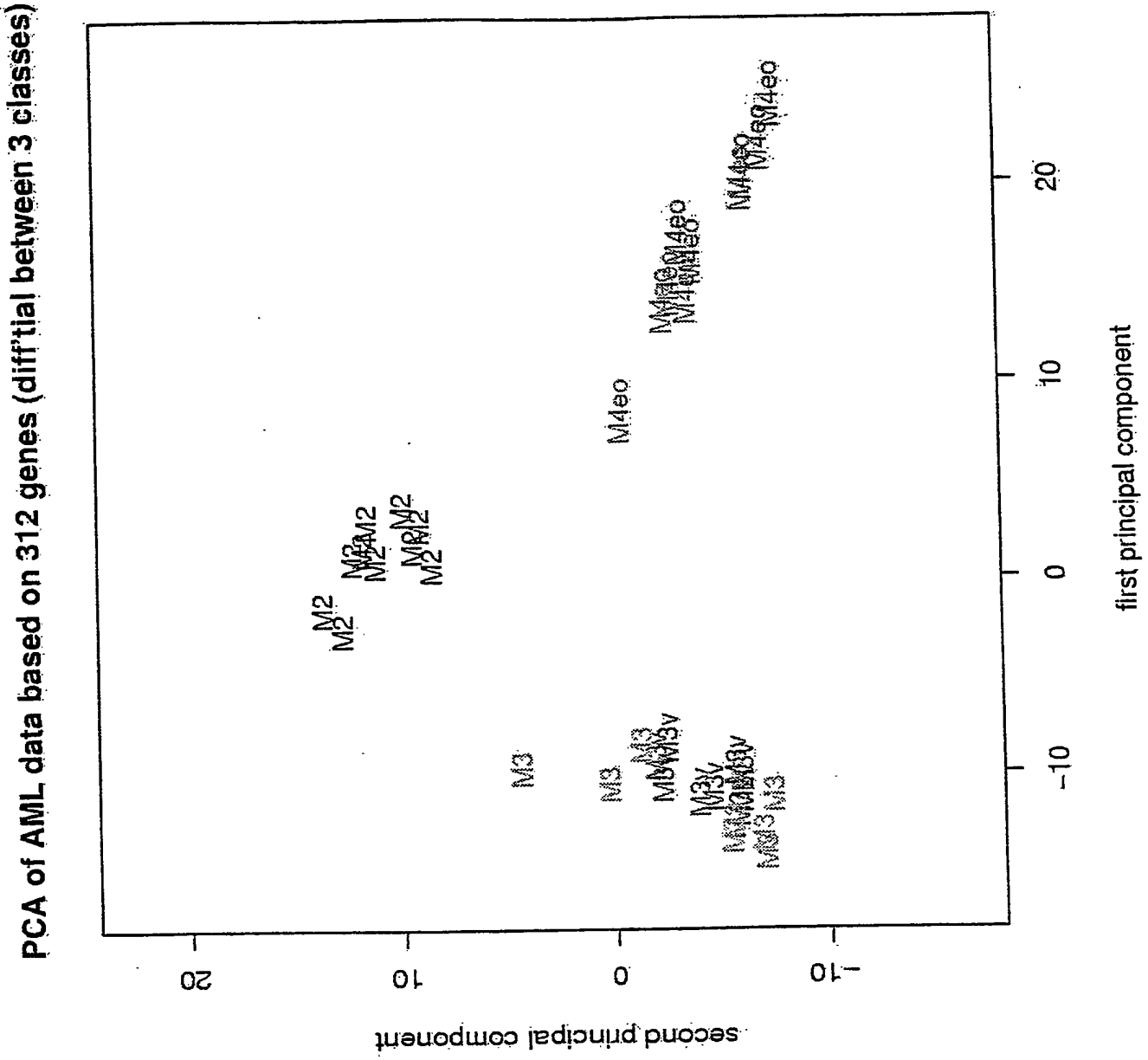

PCA of AML data based on 312 genes (diff'tial between 3 classes)
second principal component
first principal component
20
10
0
-10
M2
M3
M4eo
M3v

Figure 3a

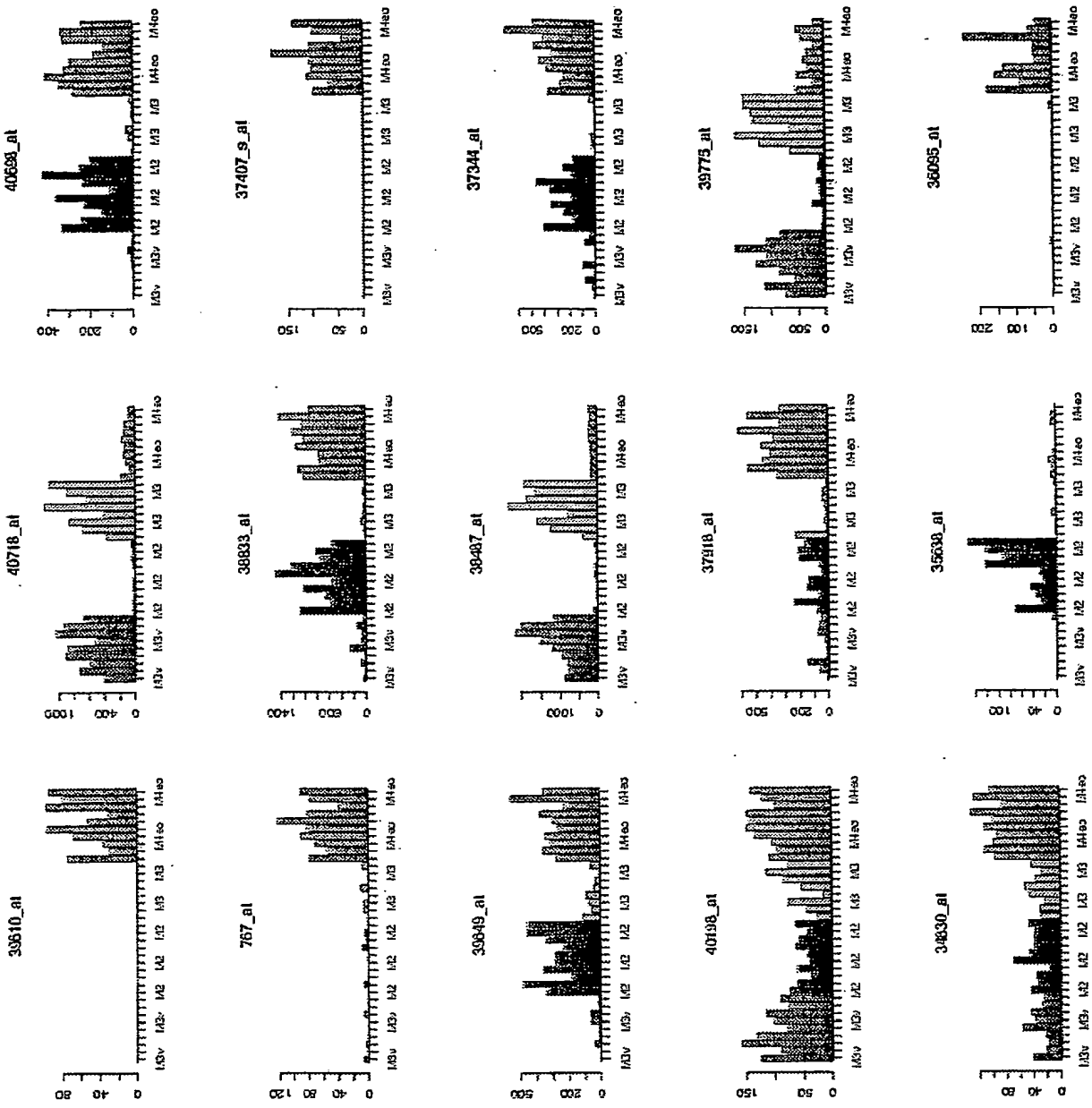

40698_at
37407_s_at
37344_at
39775_at
36095_at
40718_at
38833_at
39487_at
37918_at
35638_at
30610_at
767_at
39849_at
40198_at
34830_at

Figure 3b1

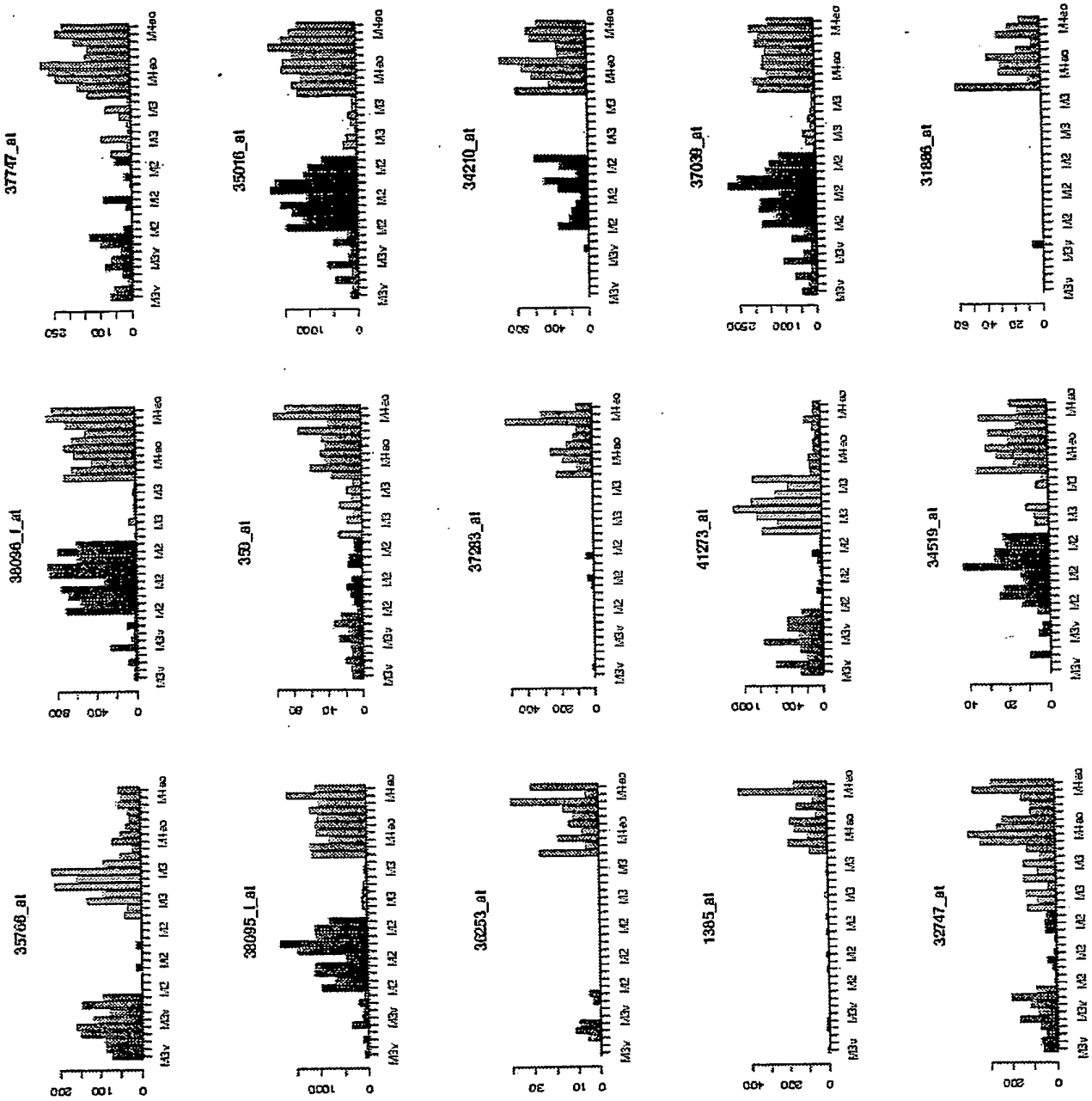

37747_at
35016_at
34210_at
37039_at
31886_at
38096_f_at
359_at
37293_at
41273_at
34519_at
35768_at
38095_f_at
36253_at
1385_at
32747_at

Figure 3b2

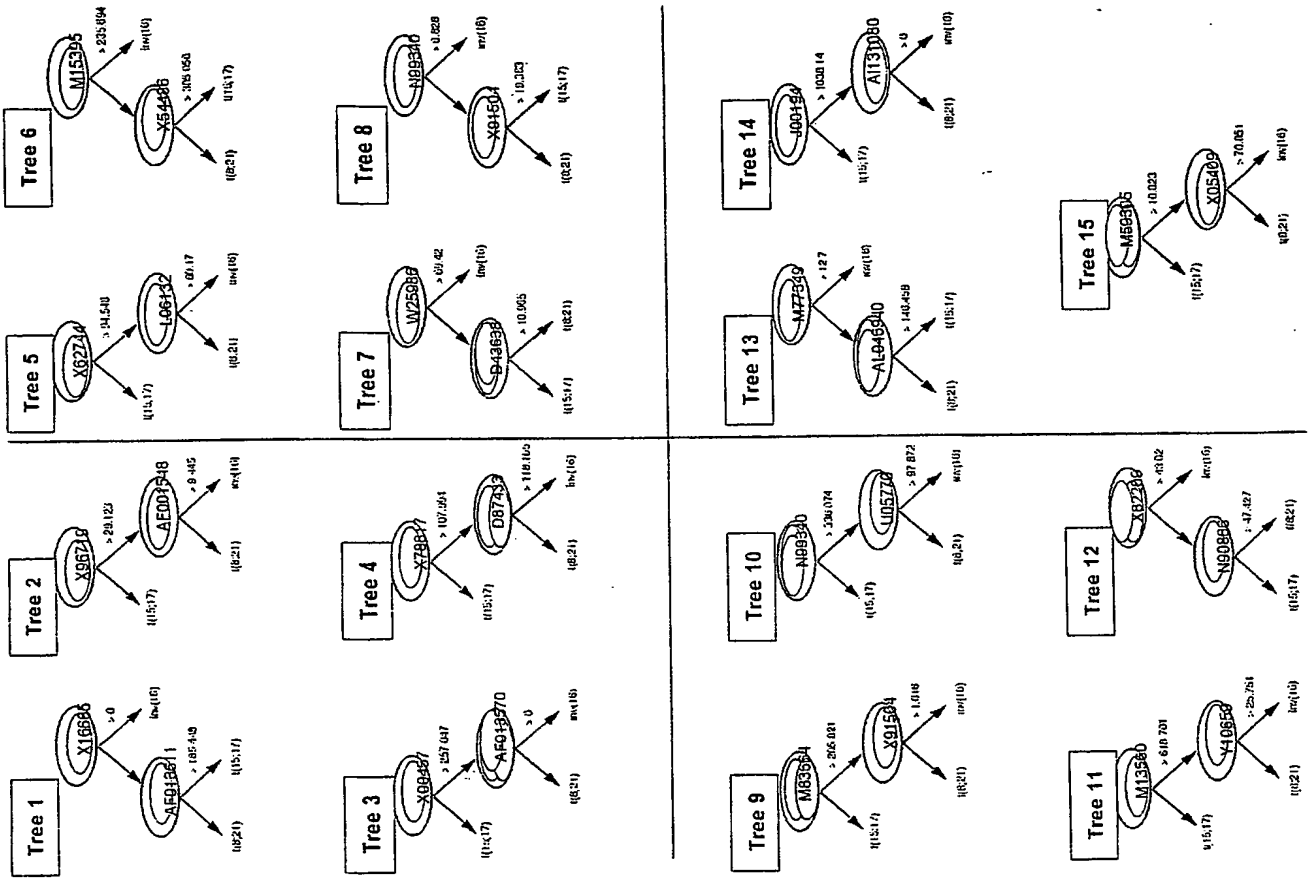


Figure 4

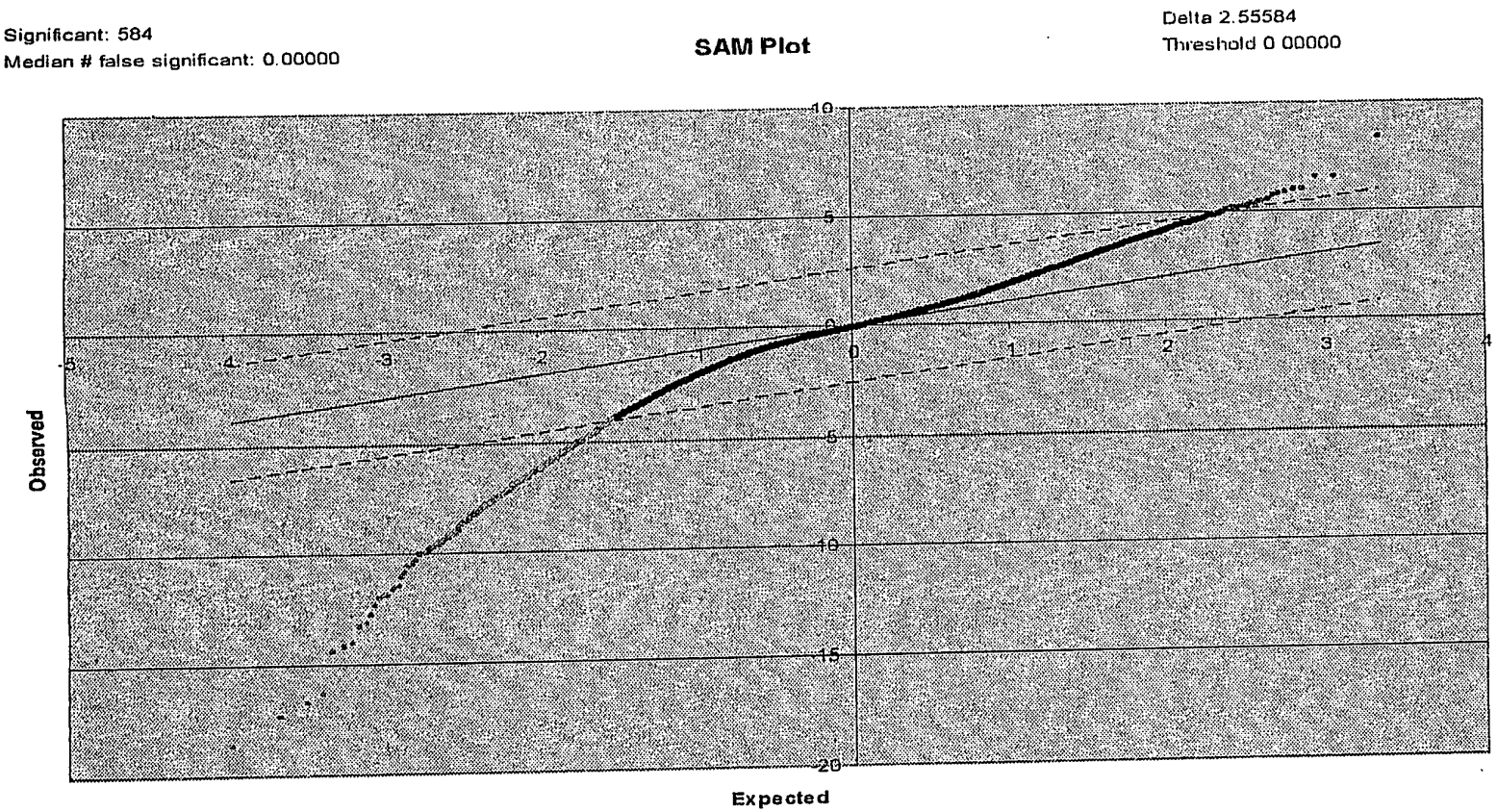
Decision trees according to IE

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5a) Pairwise Comparison of Normal BM and AML

Significance Analysis of Microarrays:

Selection of 127 differentially expressed genes based on a permutation test (K-Nearest Neighbour Imputer)

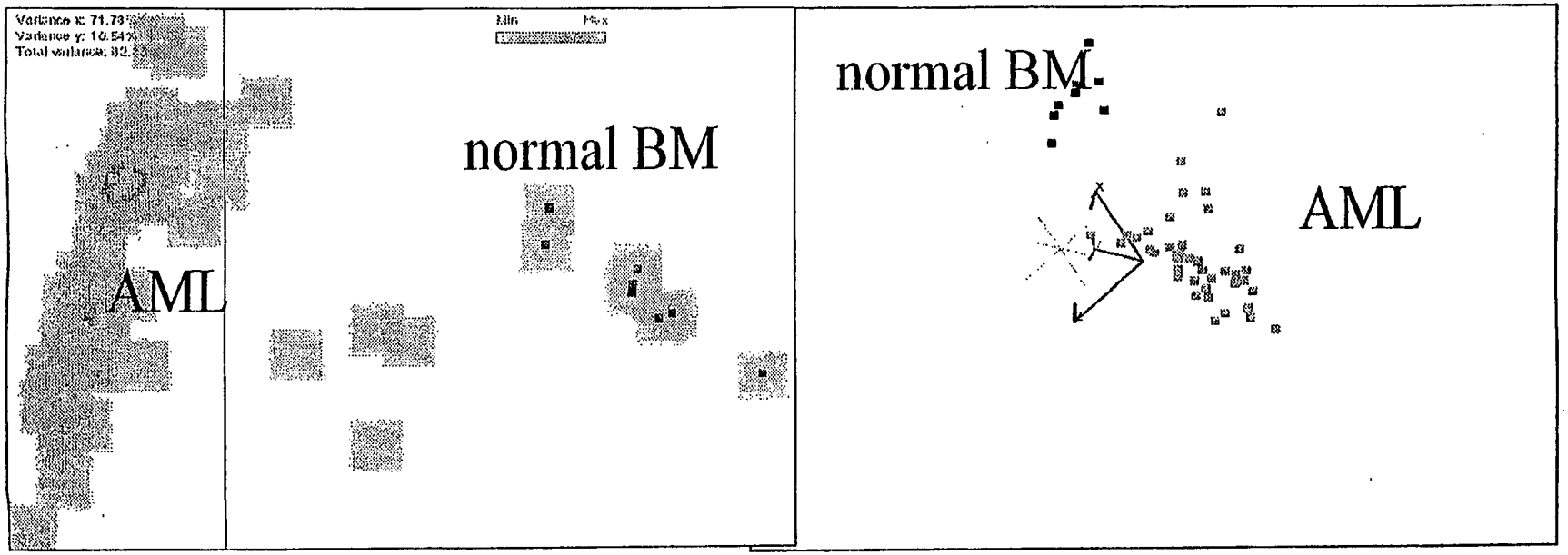


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5b) Principal Component Analysis

based on 127 significantly differentially expressed genes as selected by SAM = Significance Analysis of Microarrays

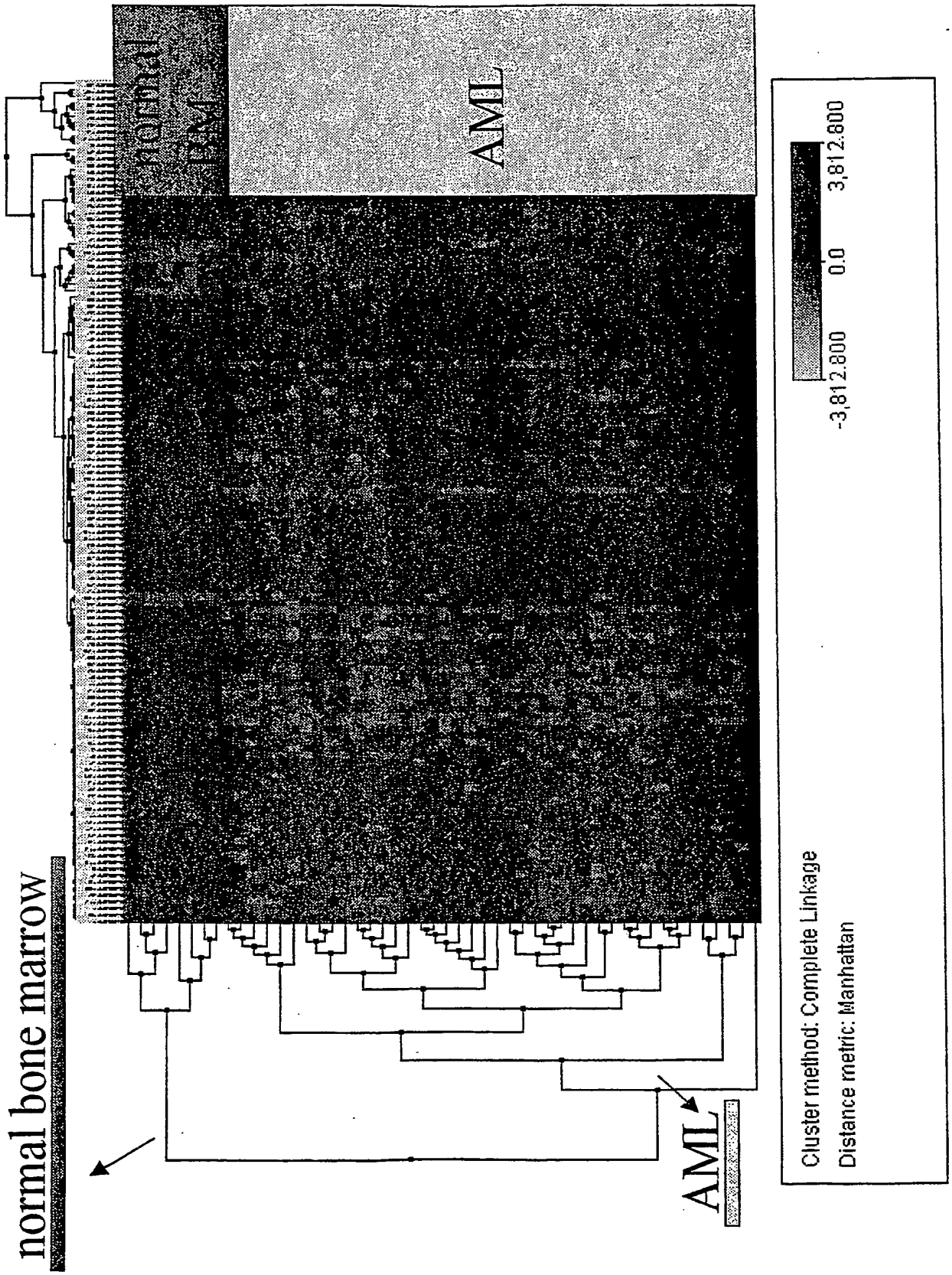
2-dimensional *3-dimensional*



AML = acute myeloid leukemia, n = 48

normal BM = bone marrow from healthy volunteers, n = 8

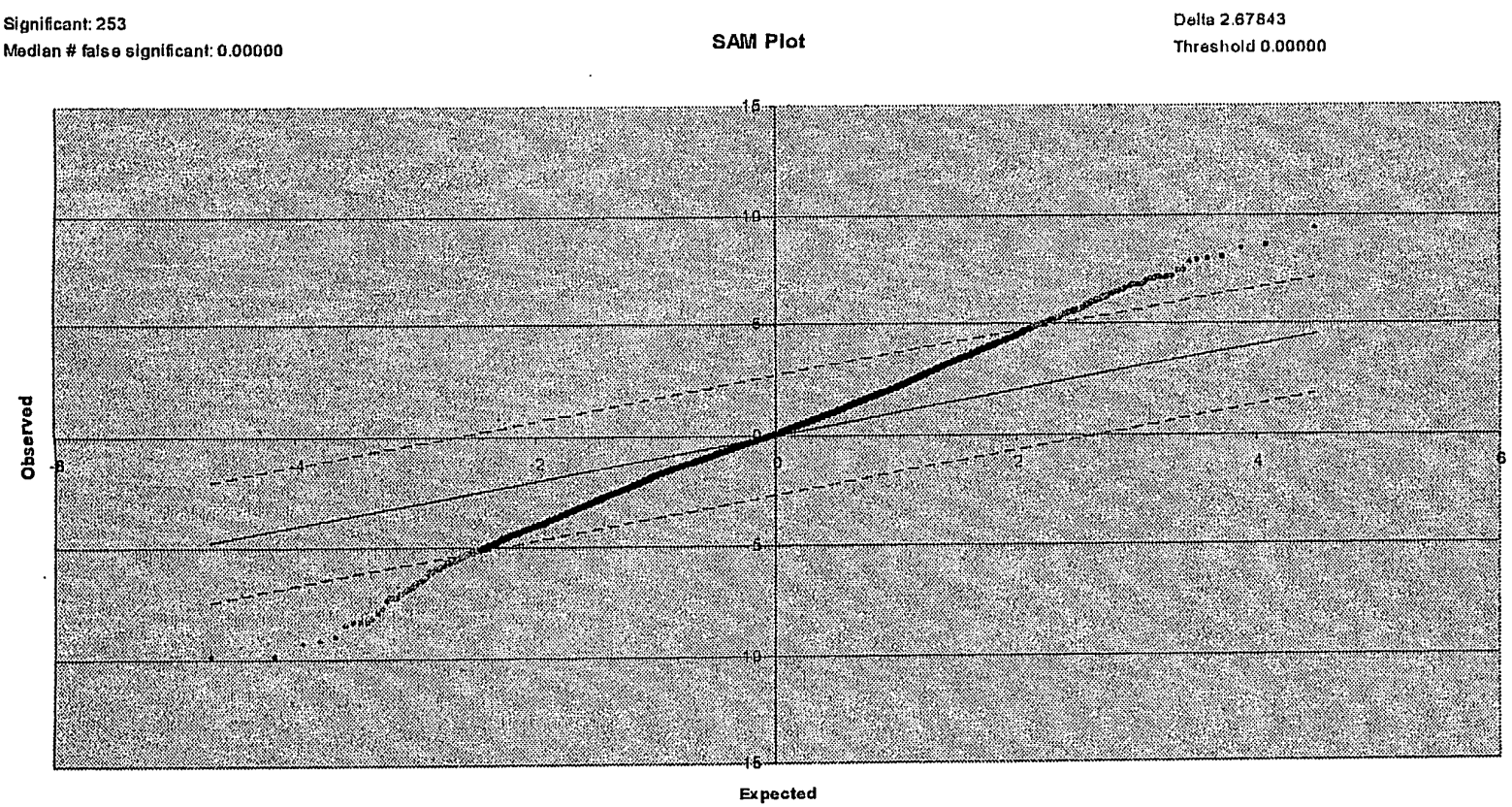
5c) Hierarchical Cluster Analysis



BNSDOCID: <WO_____03039443A2_I_>

6a) Pairwise Comparison of Normal BM and ALL

Significance Analysis of Microarrays:
Selection of 186 differentially expressed genes based on a *permutation test* (K-Nearest Neighbour Imputer)

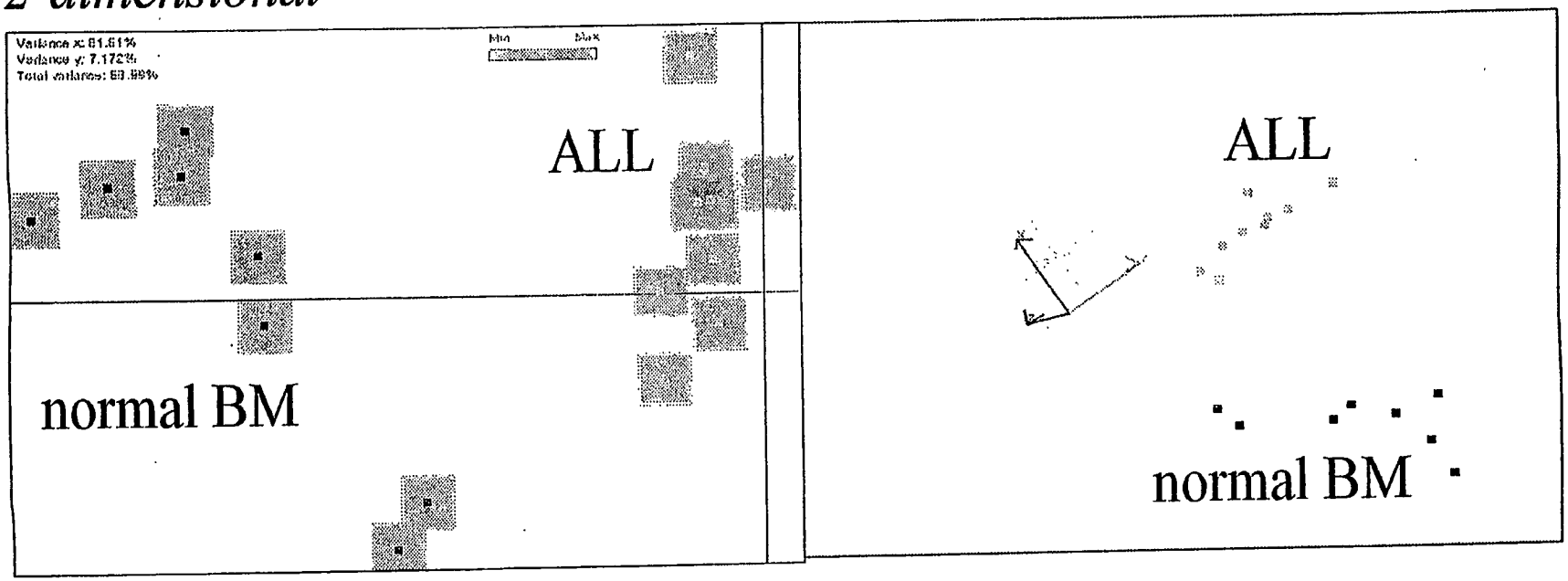


BNSDOCID: <WO_____03039443A2_1_>

6b) Principal Component Analysis

based on 186 significantly differentially expressed genes as selected by SAM = Significance Analysis of Microarrays

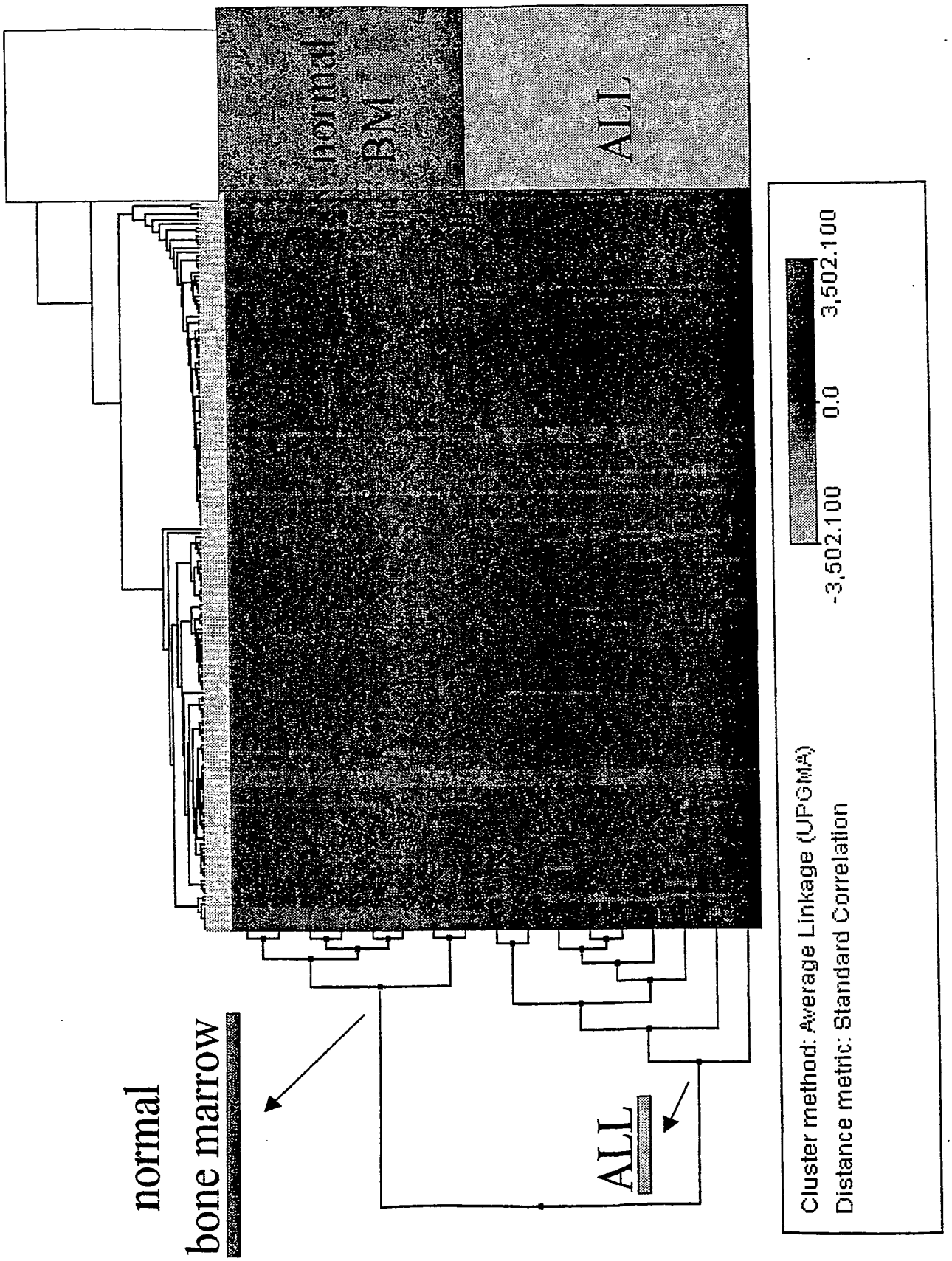
2-dimensional *3-dimensional*



ALL = akute lymphoblastic leukemia, n = 9

normal BM = bone marrow from healthy volunteers, n =8

6c) Hierarchical Cluster Analysis

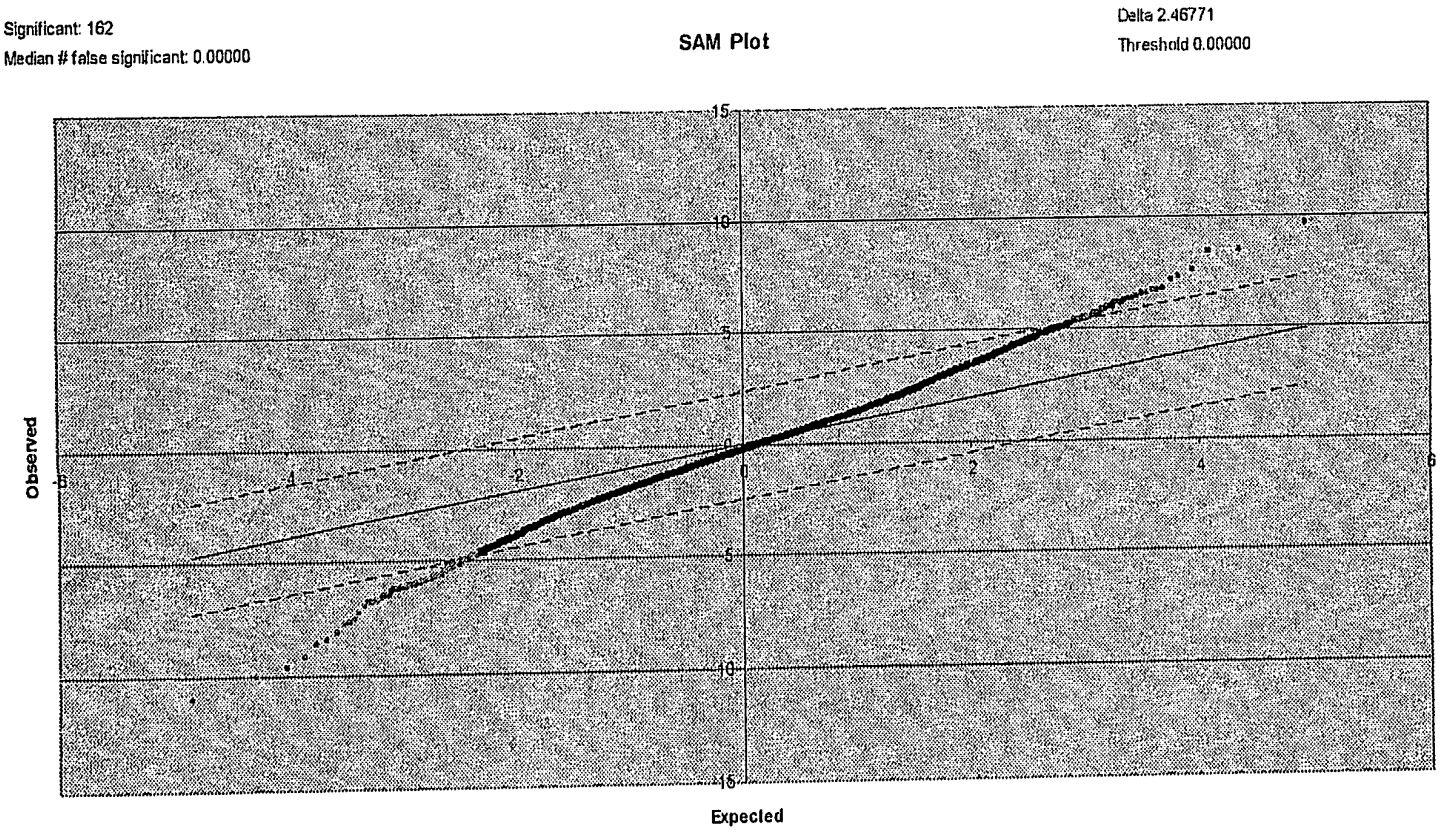


BNSDOCID: <WO_____03039443A2_I_>

7a) Pairwise Comparison of Normal BM and CML

Significance Analysis of Microarrays:

Selection of 162 differentially expressed genes based on a permutation test (K-Nearest Neighbour Imputer)

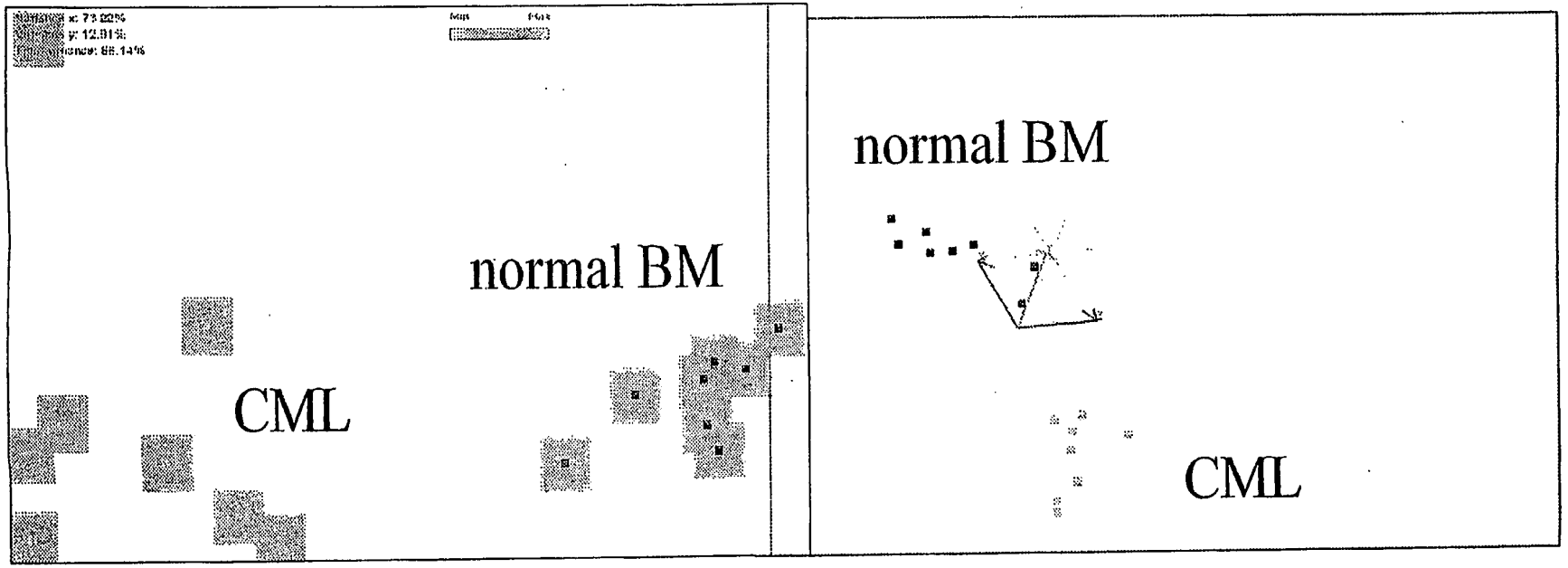


BNSDOCID: <WO_____03039443A2_I_>

7b) Principal Component Analysis

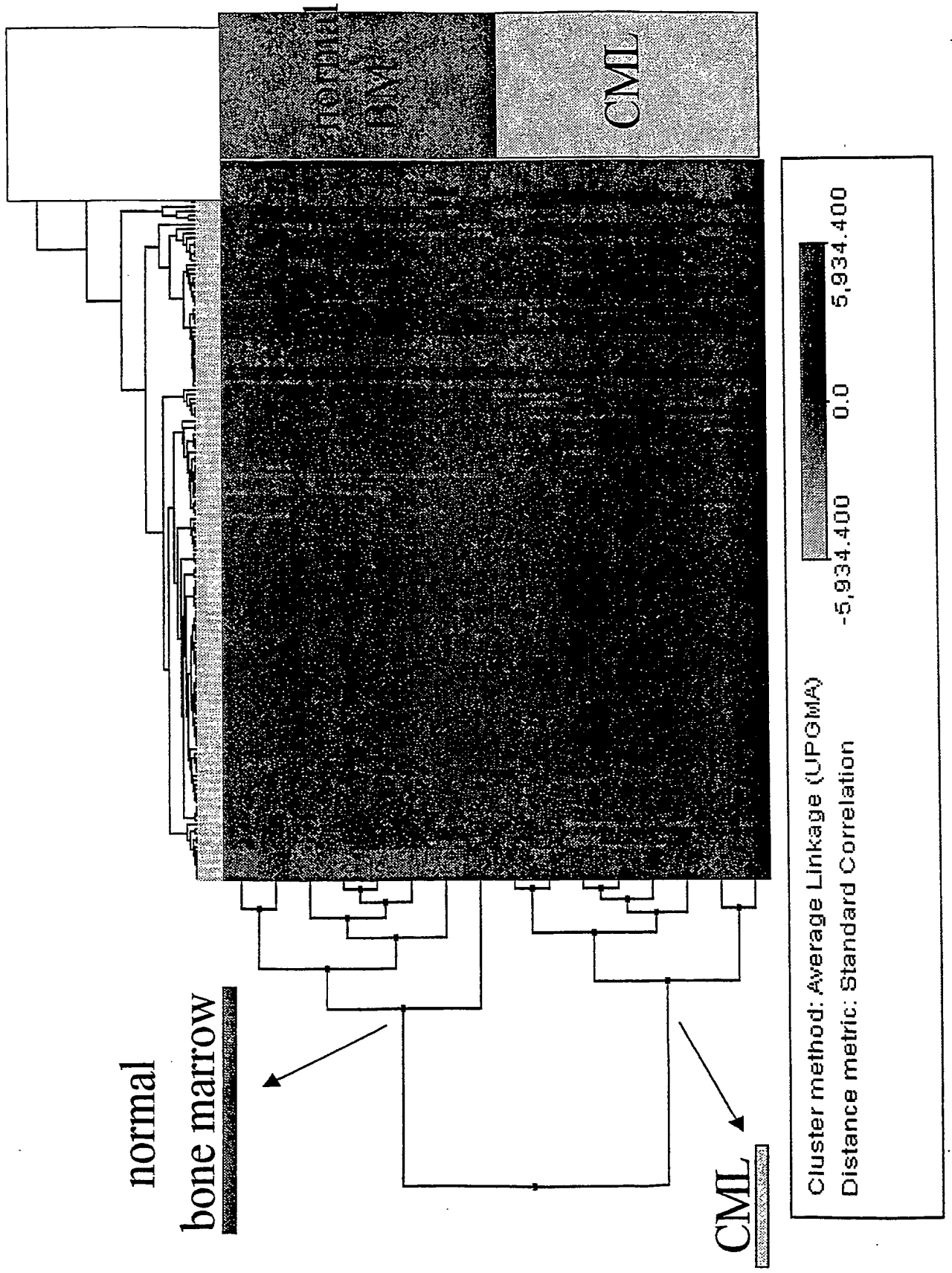
based on 200 significantly differentially expressed genes as selected by SAM = Significance Analysis of Microarrays

2-dimensional *3-dimensional*



CML	=	chronic myeloid leukemia, n = 8
normal BM	=	bone marrow from healthy volunteers, n =8

7c) Hierarchical Cluster Analysis



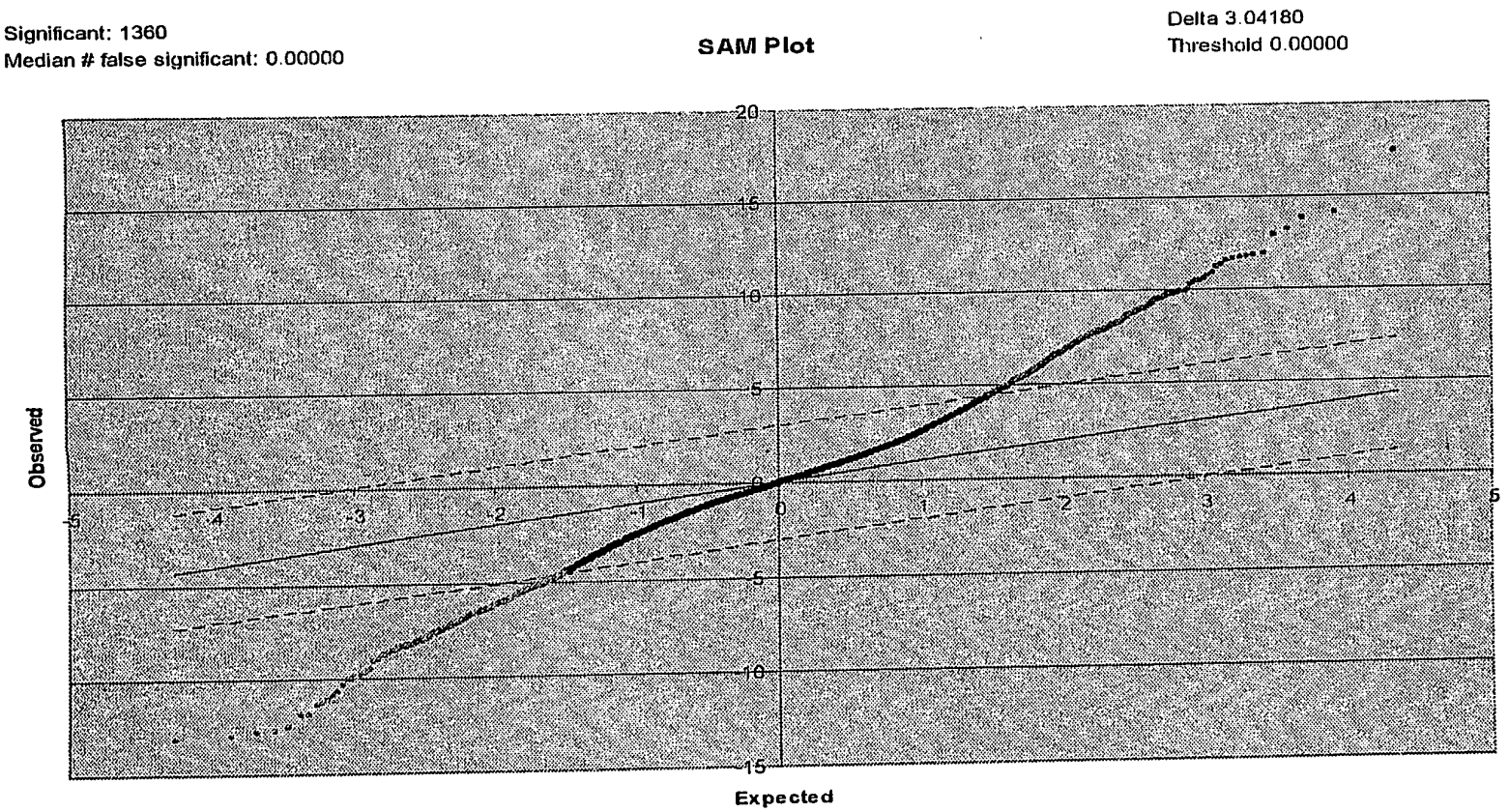
BNSDOCID: <WO_____03039443A2_I_>

BNSDOCID: <WO_____03039443A2_I_>

8a) Pairwise Comparison of Normal BM and CLL

Significance Analysis of Microarrays:

Selection of 200 differentially expressed genes based on a permutation test (K-Nearest Neighbor Imputer)

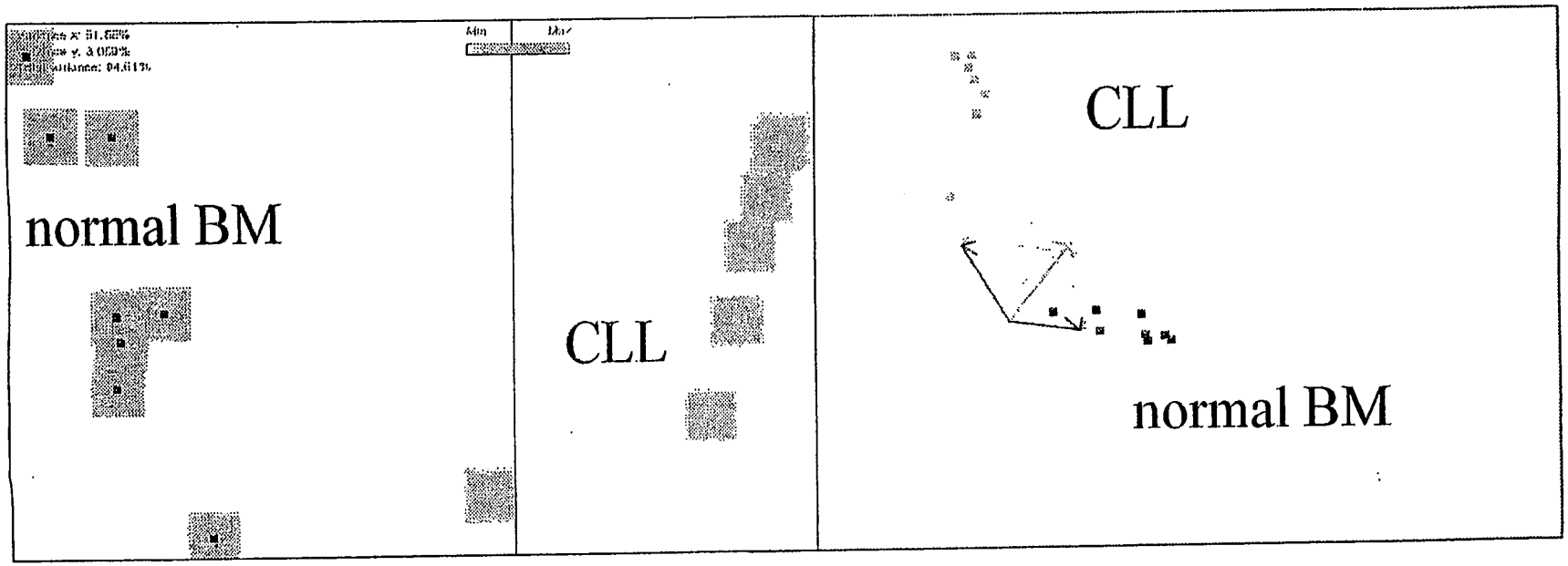


BNSDOCID: <WO_____03039443A2_1_>

8b) Principal Component Analysis

based on 200 significantly differentially expressed genes as selected by SAM = Significance Analysis of Microarrays

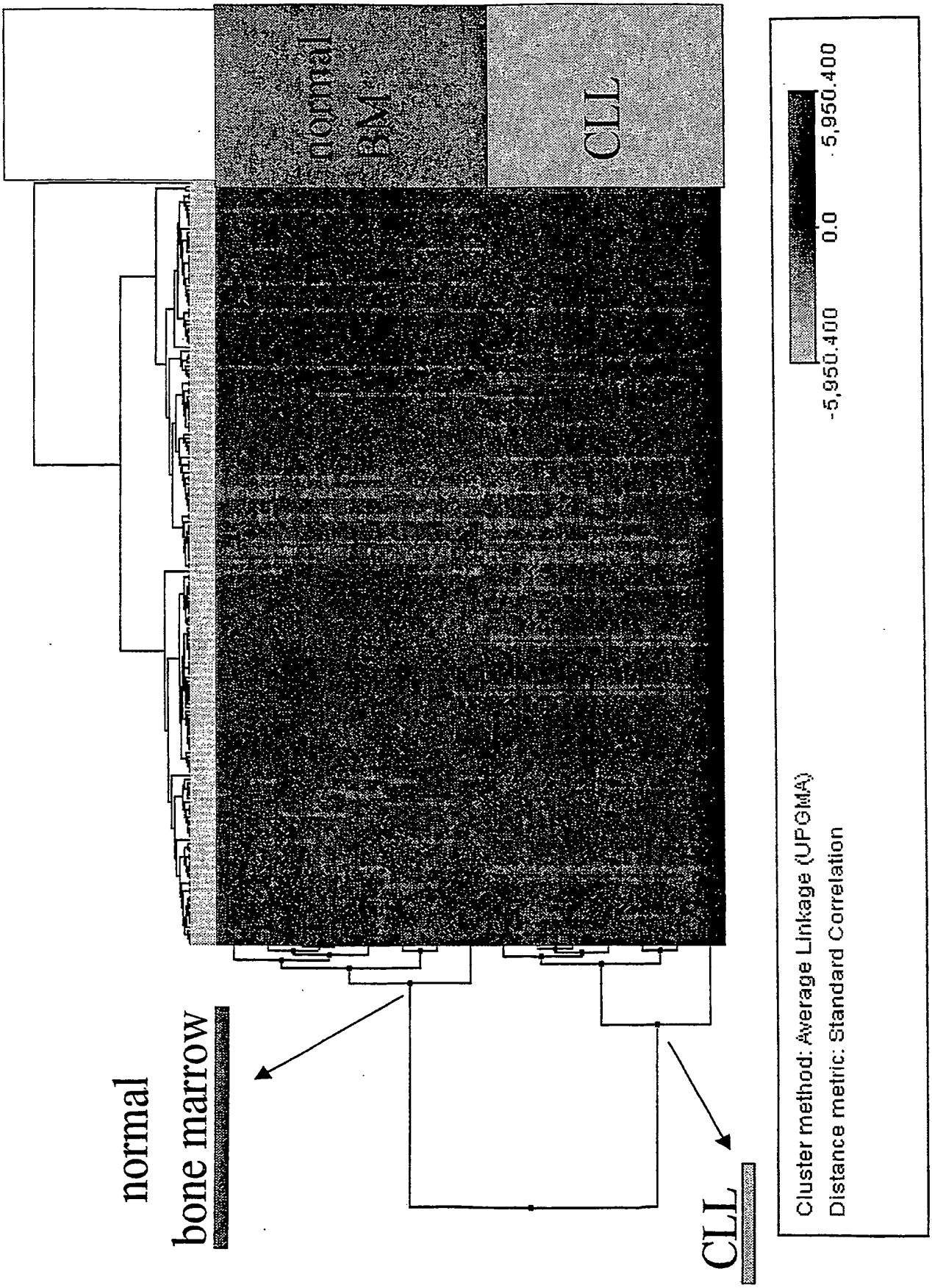
2-dimensional *3-dimensional*



CLL = chronic lymphatic leukemia, n = 7

normal BM = bone marrow from healthy volunteers, n =8

8c) Hierachical Cluster Analysis

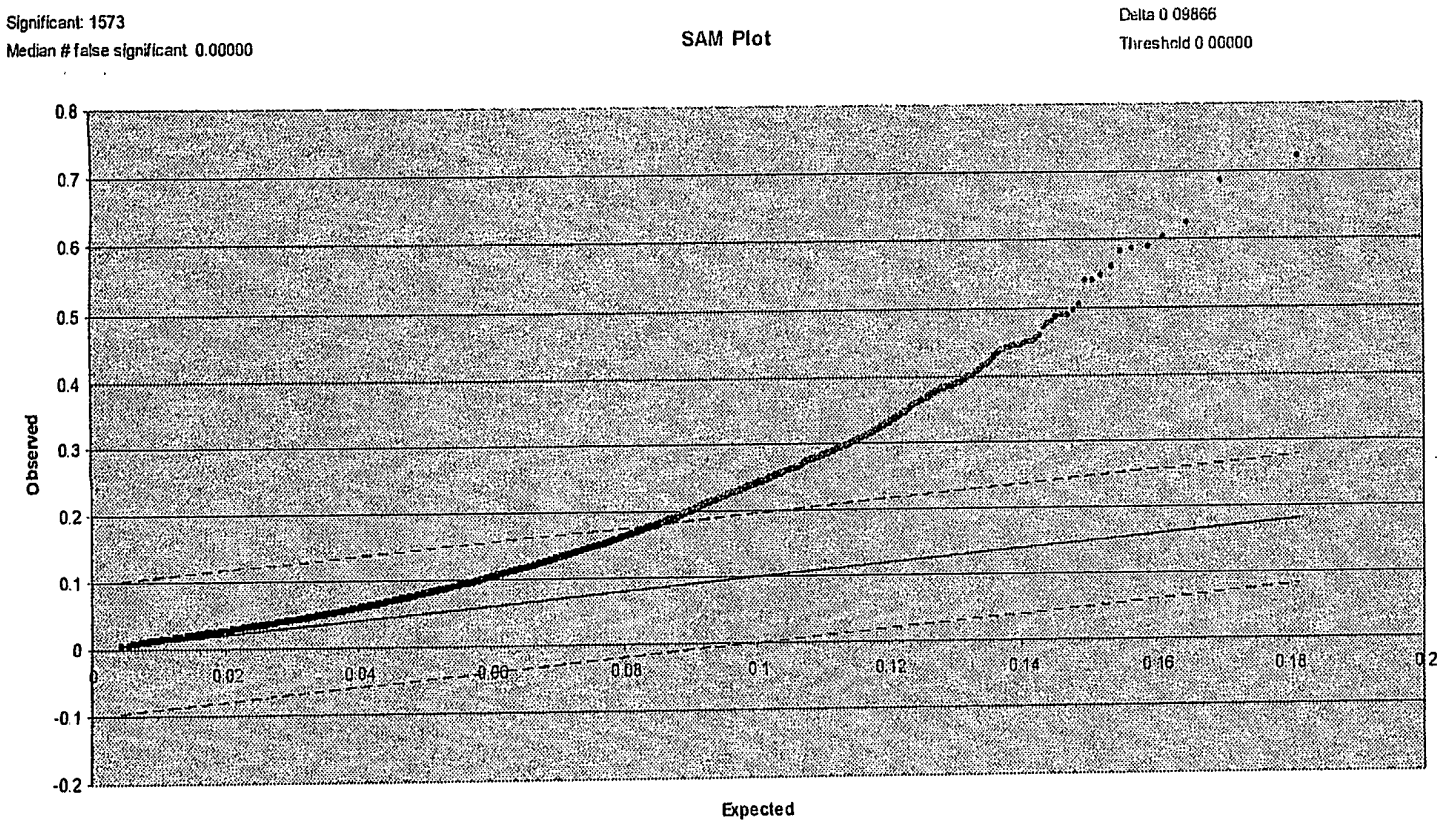


BNSDOCID: <WO_____03039443A2_1_>

9a) AML-WHO Classification

Significance Analysis of Microarrays:

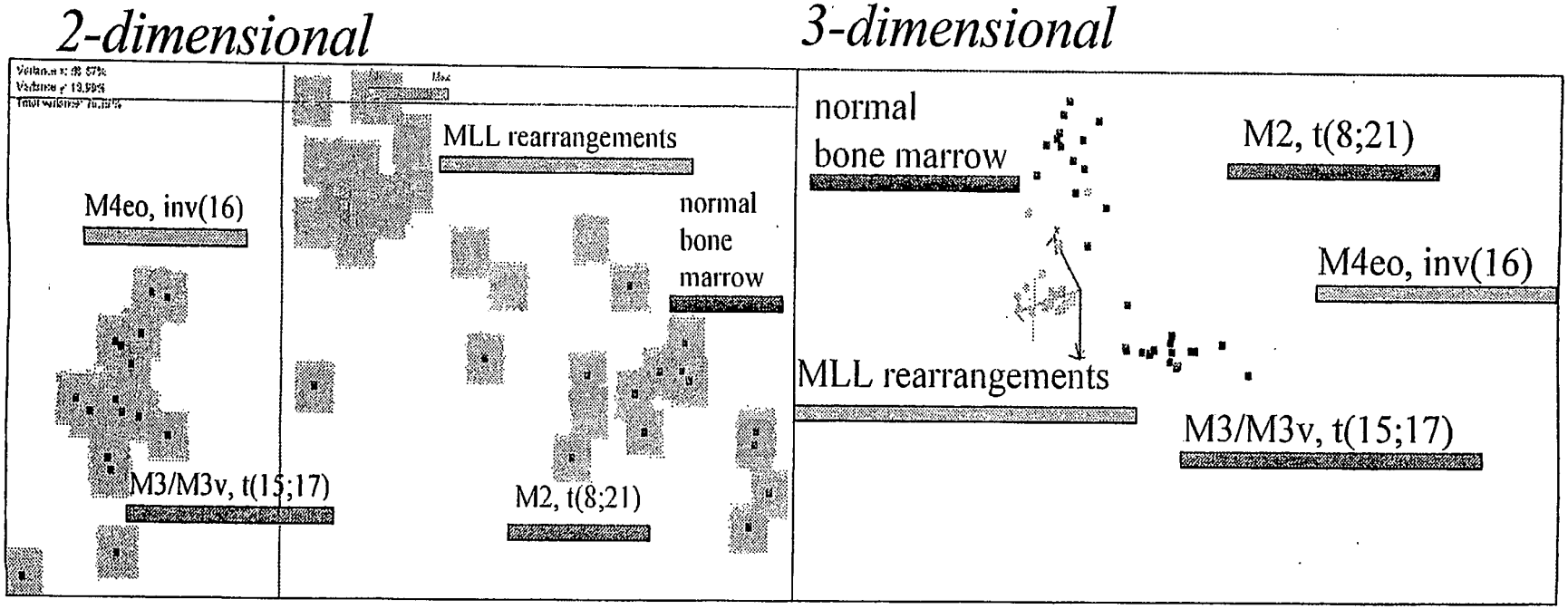
Selection of 124 differentially expressed genes based on a permutation test (K-Nearest Neighbor Imputer)



BNSDOCID: <WO_____03039443A2_1_>

9b) Principal Component Analysis

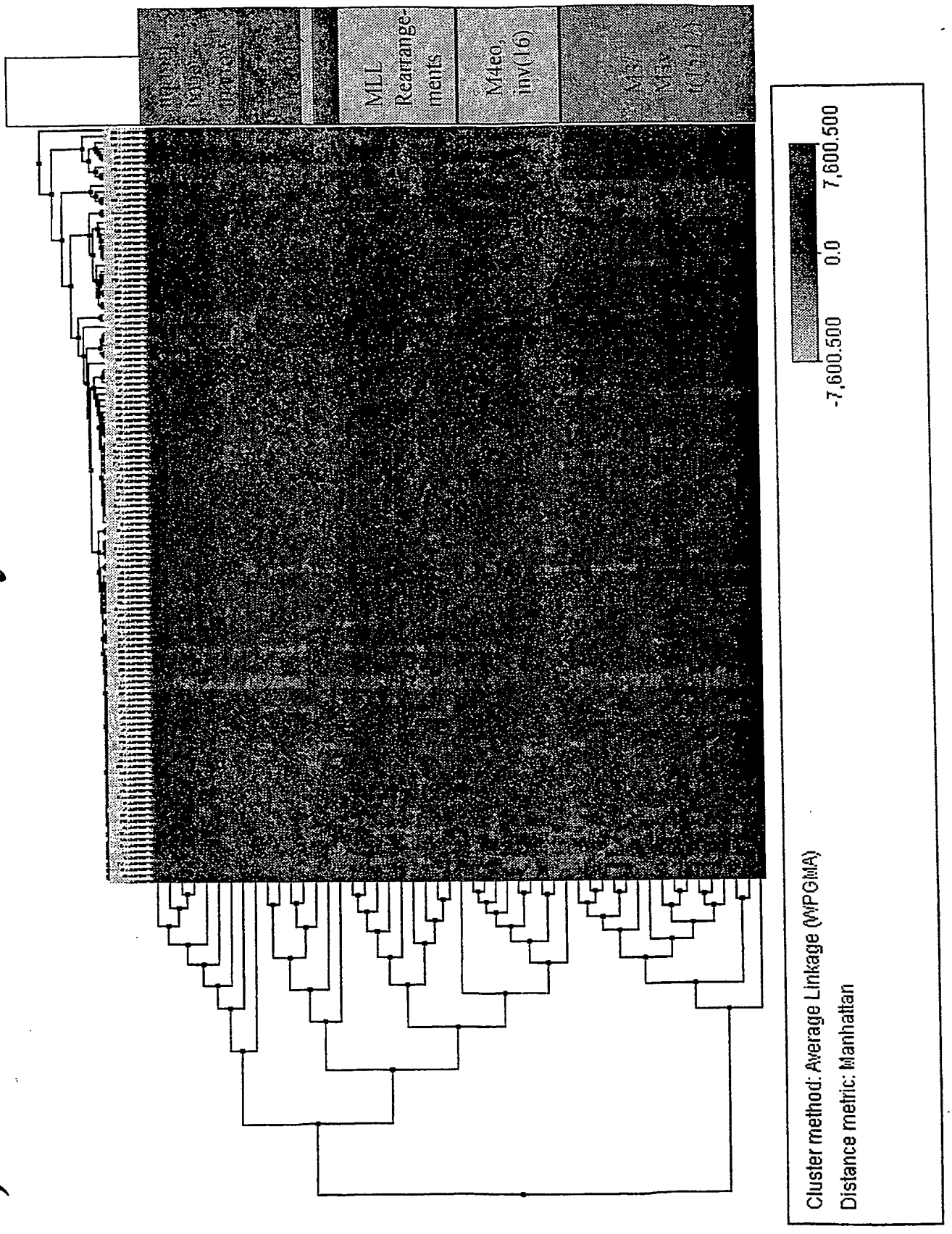
based on 124 significantly differentially expressed genes as selected by SAM = Significance Analysis of Microarrays



AML = 4 distinct cytogenetic subgroups, n = 48

normal BM = bone marrow from healthy volunteers, n =8

9c) Hierachical Cluster Analysis

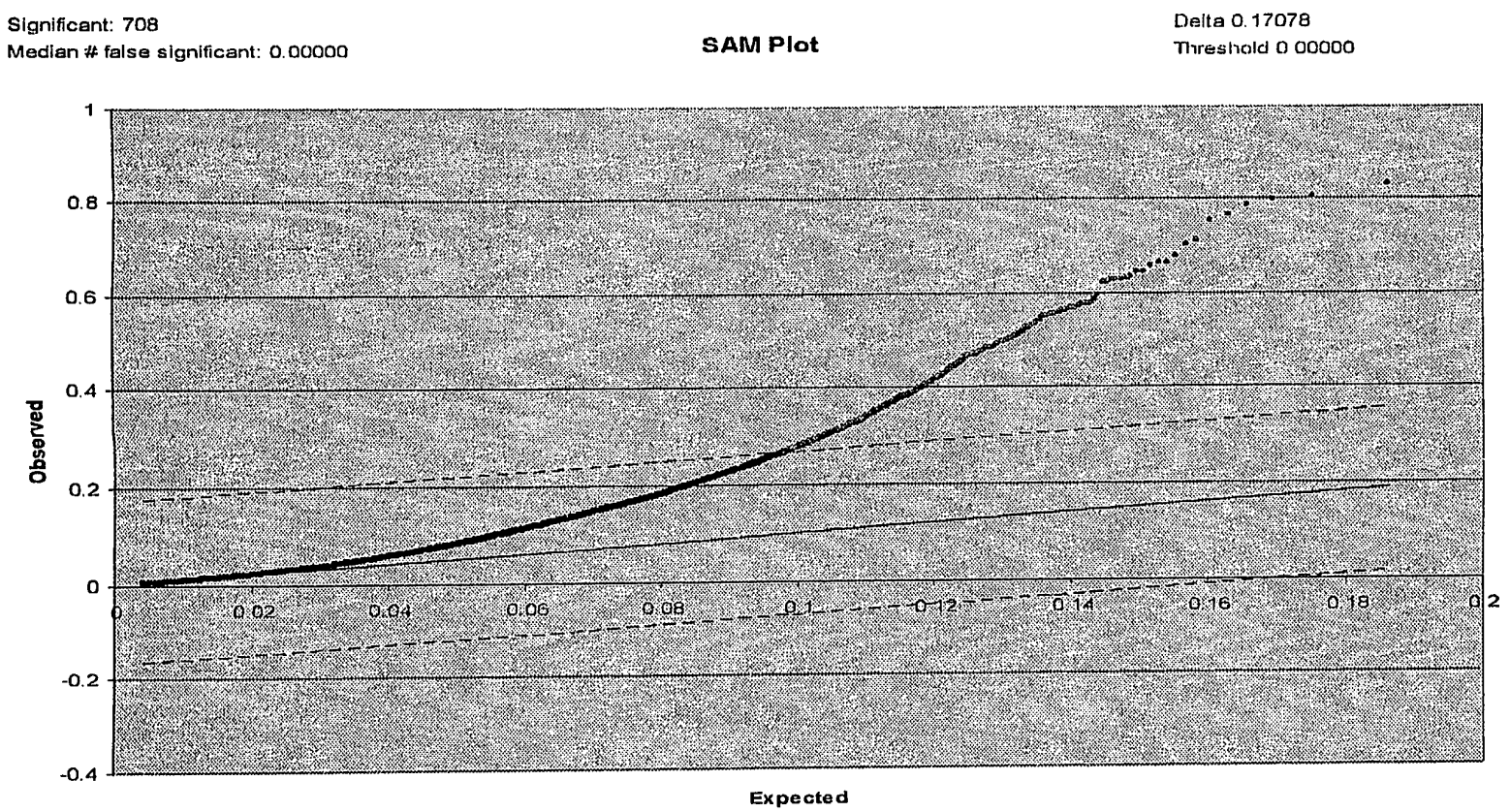


BNSDOCID: <WO_____03039443A2_1_>

10a) Comparison of Normal BM versus Leukemia

Significance Analysis of Microarrays:

Selection of Top100 differentially expressed genes based on a permutation test (K-Nearest Neighbour Imputer)

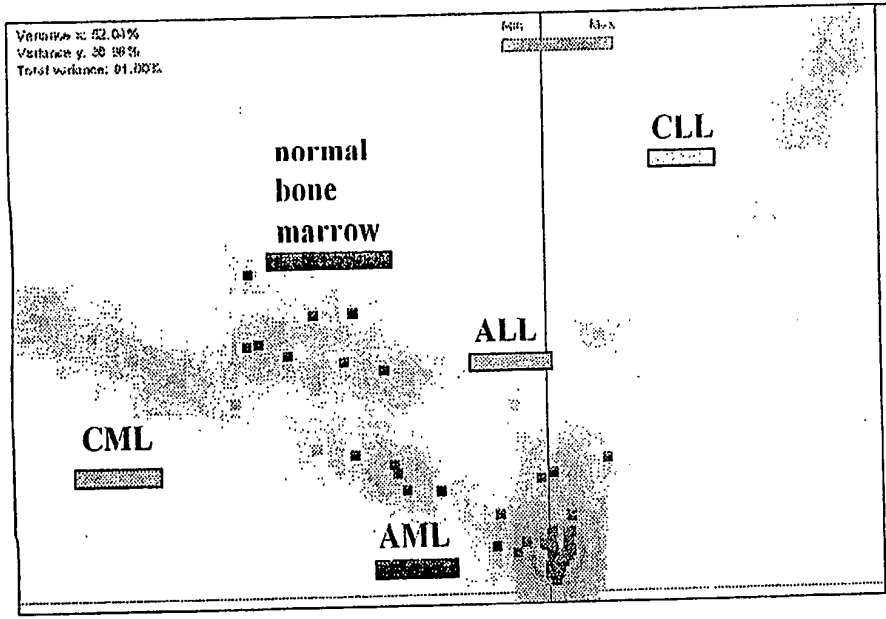


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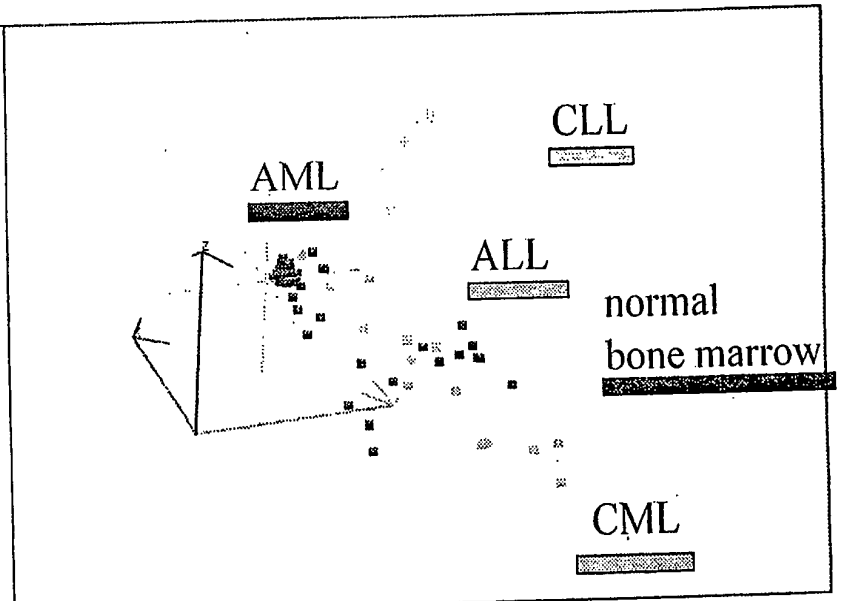
10b) Principal Component Analysis

based on 100 significantly differentially expressed genes as selected by SAM = Significance Analysis of Microarrays

2-dimensional



3-dimensional



leukemia = 4 entities: AML, ALL, CML, CLL, n = 72

normal BM = bone marrow from healthy volunteers, n =8

10c) Hierachical Cluster Analysis

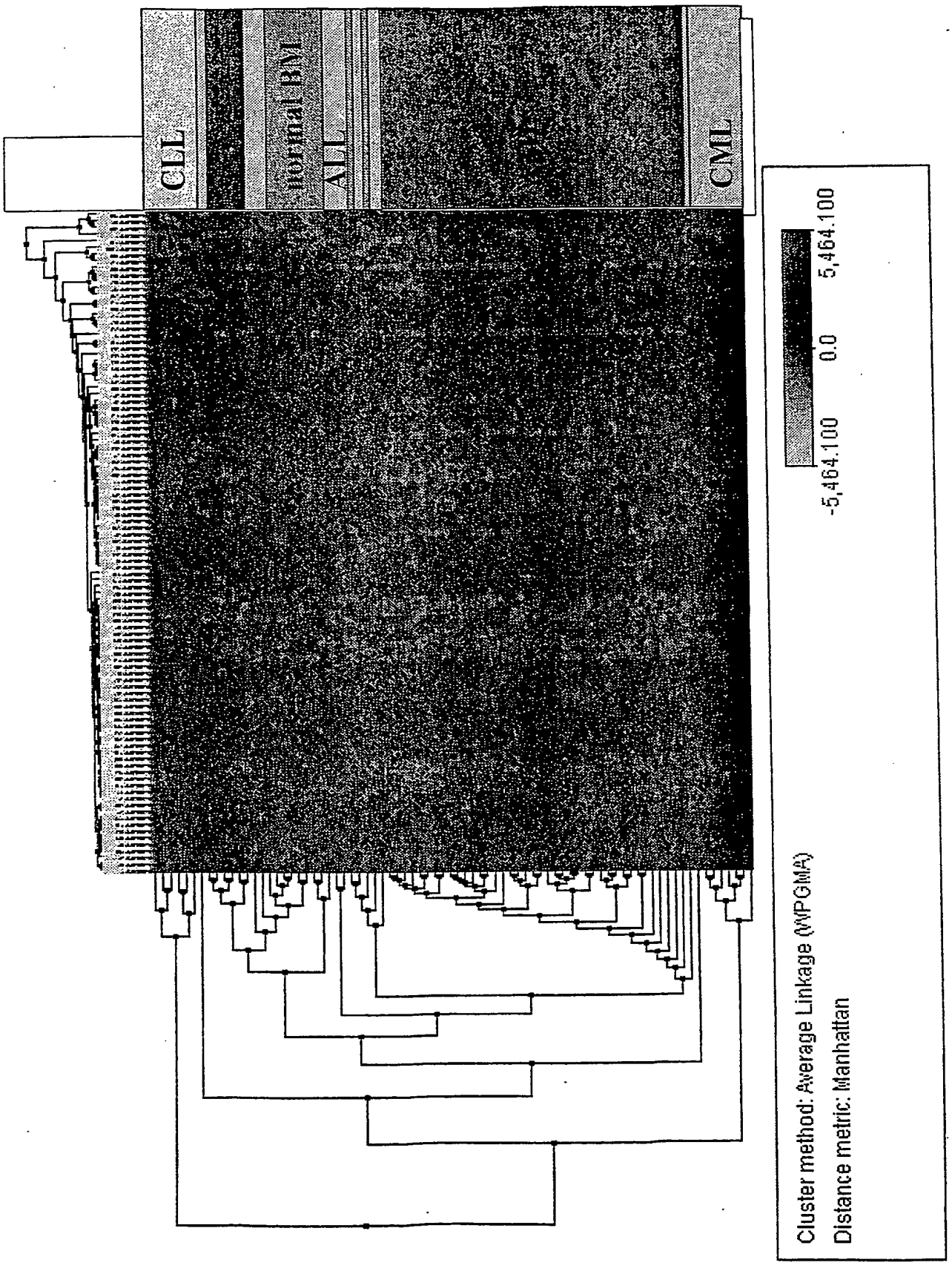
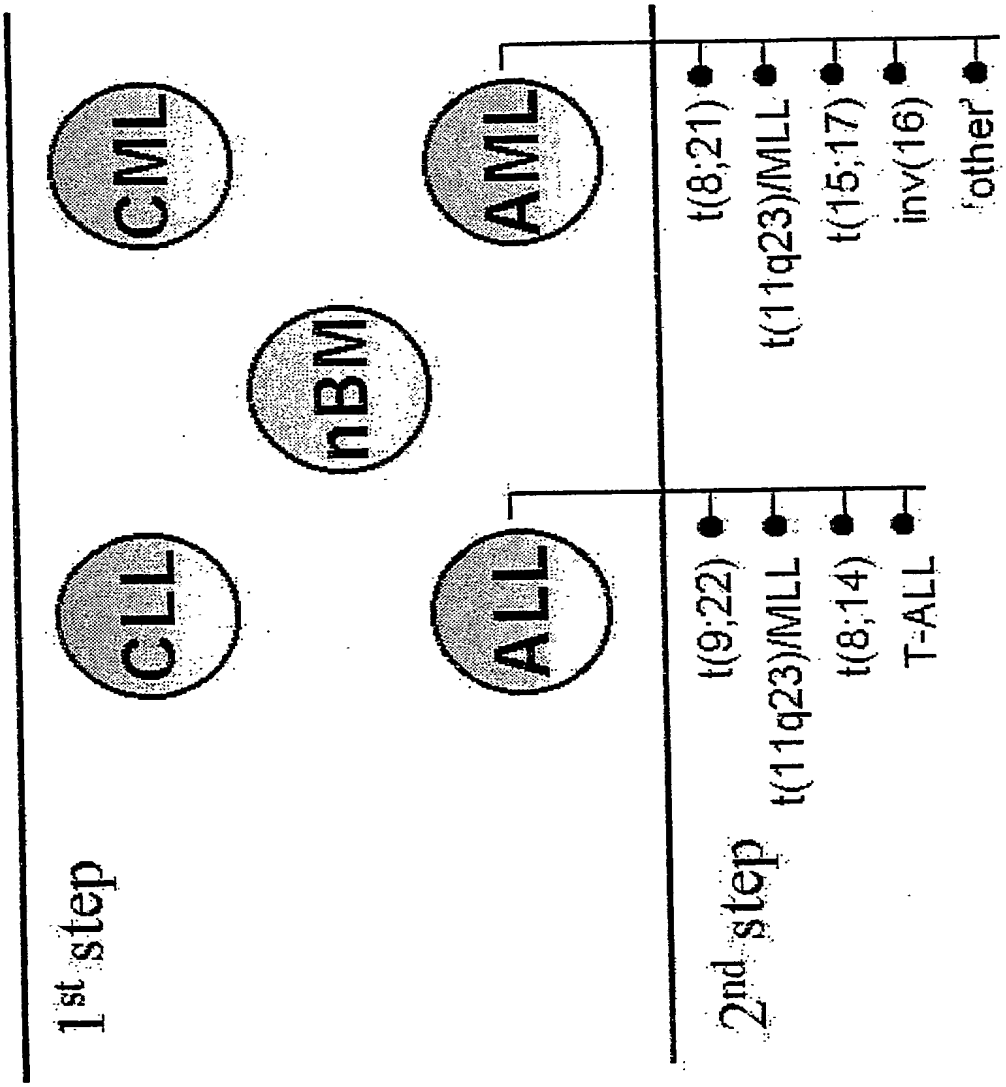


Figure 11a


1st step
CLL
CML
nBM
ALL
AML
2nd step
t(9;22)
t(11q23)/MLL
t(8;14)
T-ALL
t(8;21)
t(11q23)/MLL
t(15;17)
inv(16)
'other'

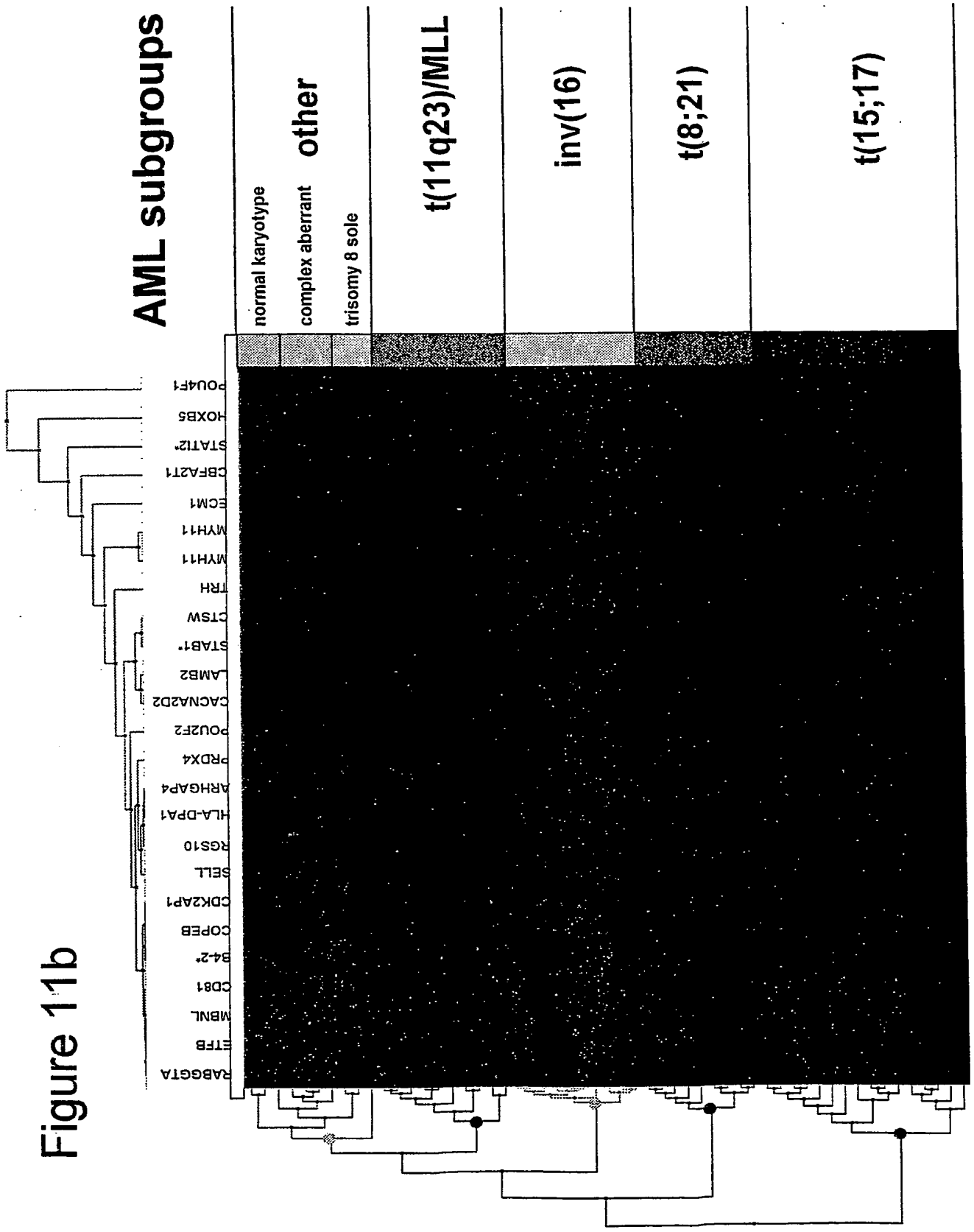

AML subgroups
normal karyotype
complex aberrant
trisomy 8 sole
other
t(11q23)/MLL
inv(16)
t(8;21)
t(15;17)
POU4F1
HOXB5
STAT12*
CBFA2T1
ECM1
MYH11
MYH11
TRH
CTSW
STAB1*
LAMB2
CACNA2D2
POU2F2
PRDX4
ARHGAP4
HLA-DPA1
RGS10
SELL
CDK2AP1
COPEB
B4-2*
CD81
MBNL
ETFB
RABGGTA

Figure 11b

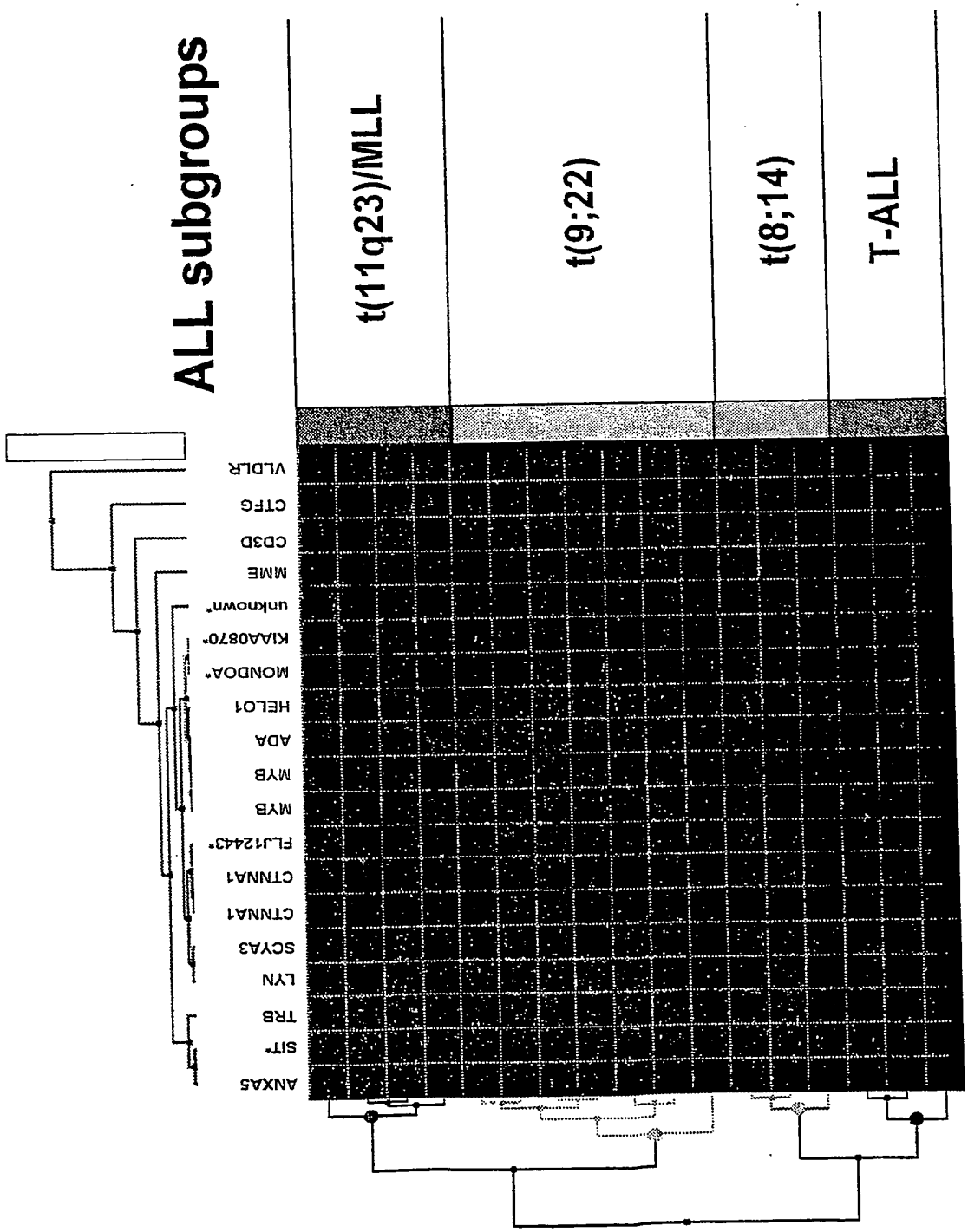

ALL subgroups
t(11q23)/MLL
t(9;22)
t(8;14)
T-ALL
VLDLR
CTFG
CD3D
MME
unknown*
KIAA0870*
MONDOA*
HELO1
ADA
MYB
MYB
FLJ12443*
CTNNA1
CTNNA1
SCYA3
LYN
TRB
SIT*
ANXA5

Figure 11c

Figure 12a

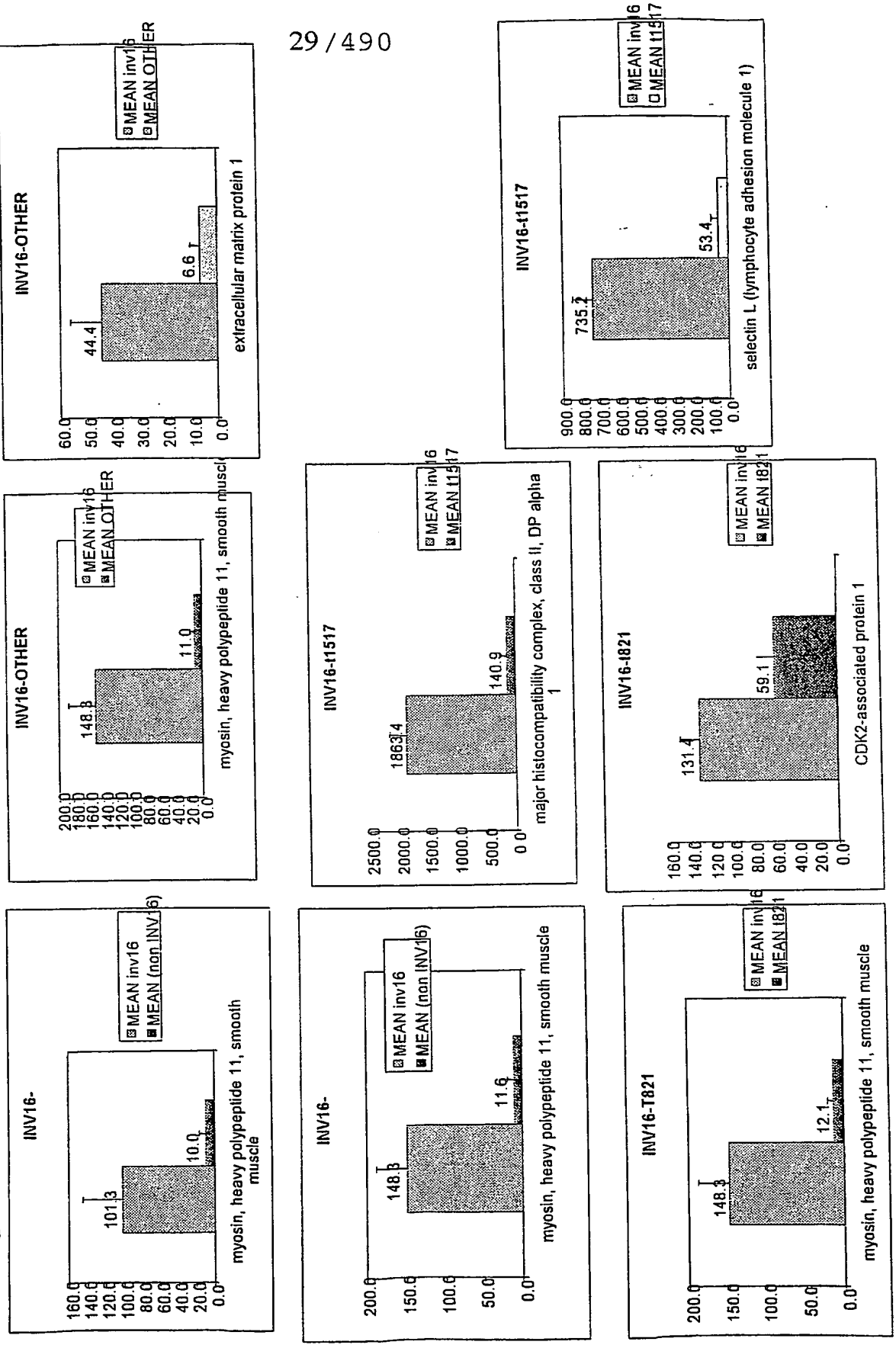

INV16-
MEAN inv16
MEAN (non INV16)
101.3
10.0
myosin, heavy polypeptide 11, smooth muscle
INV16-OTHER
MEAN inv16
MEAN OTHER
148.3
11.0
myosin, heavy polypeptide 11, smooth muscle
INV16-OTHER
44.4
6.6
extracellular matrix protein 1
INV16-
MEAN inv16
MEAN (non INV16)
148.3
11.6
myosin, heavy polypeptide 11, smooth muscle
INV16-I1517
MEAN inv16
MEAN I1517
1863.4
140.9
major histocompatibility complex, class II, DP alpha 1
INV16-T821
MEAN inv16
MEAN I821
148.3
12.1
myosin, heavy polypeptide 11, smooth muscle
INV16-I821
MEAN inv16
MEAN I821
131.4
59.1
CDK2-associated protein 1
INV16-I1517
MEAN inv16
MEAN I1517
735.2
53.4
selectin L (lymphocyte adhesion molecule 1)

Figure 12b

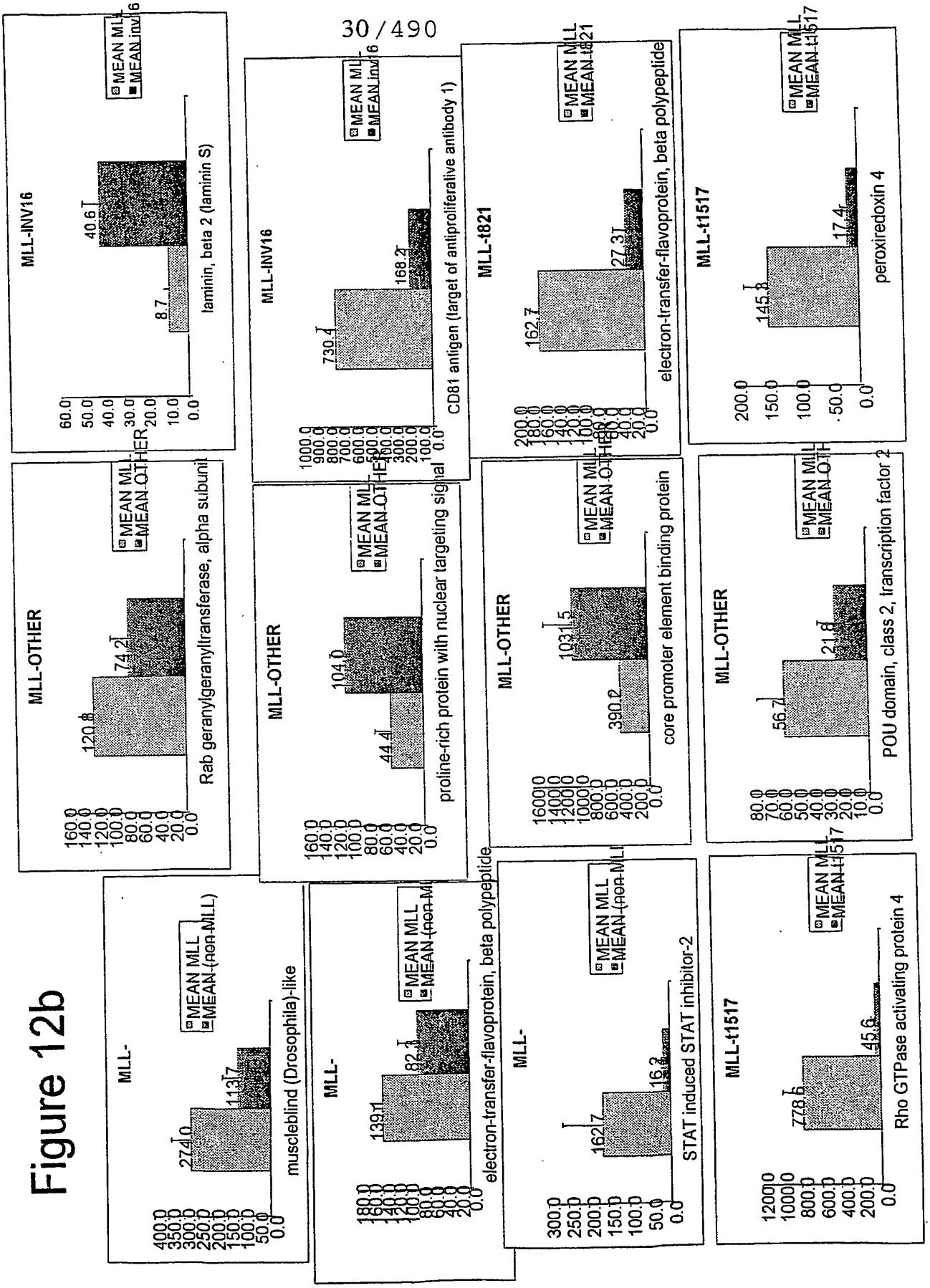

MLL-
MEAN MLL
MEAN (non-MLL)
muscleblind (Drosophila)-like
MLL-OTHER
MEAN MLL
MEAN OTHER
Rab geranylgeranyltransferase, alpha subunit
MLL-
MEAN MLL
MEAN (non-MLL)
electron-transfer-flavoprotein, beta polypeptide
MLL-OTHER
MEAN MLL
MEAN OTHER
proline-rich protein with nuclear targeting signal
MLL-
MEAN MLL
MEAN (non-MLL)
STAT induced STAT inhibitor-2
MLL-OTHER
MEAN MLL
MEAN OTHER
core promoter element binding protein
MLL-t1517
MEAN MLL
MEAN t1517
Rho GTPase activating protein 4
MLL-OTHER
MEAN MLL
MEAN OTH
POU domain, class 2, transcription factor 2
MLL-INV16
MEAN MLL
MEAN inv16
laminin, beta 2 (laminin S)
MLL-INV16
MEAN MLL
MEAN inv16
CD81 antigen (target of antiproliferative antibody 1)
MLL-t821
MEAN MLL
MEAN t821
electron-transfer-flavoprotein, beta polypeptide
MLL-t1517
MEAN MLL
MEAN t1517
peroxiredoxin 4

Figure 12c

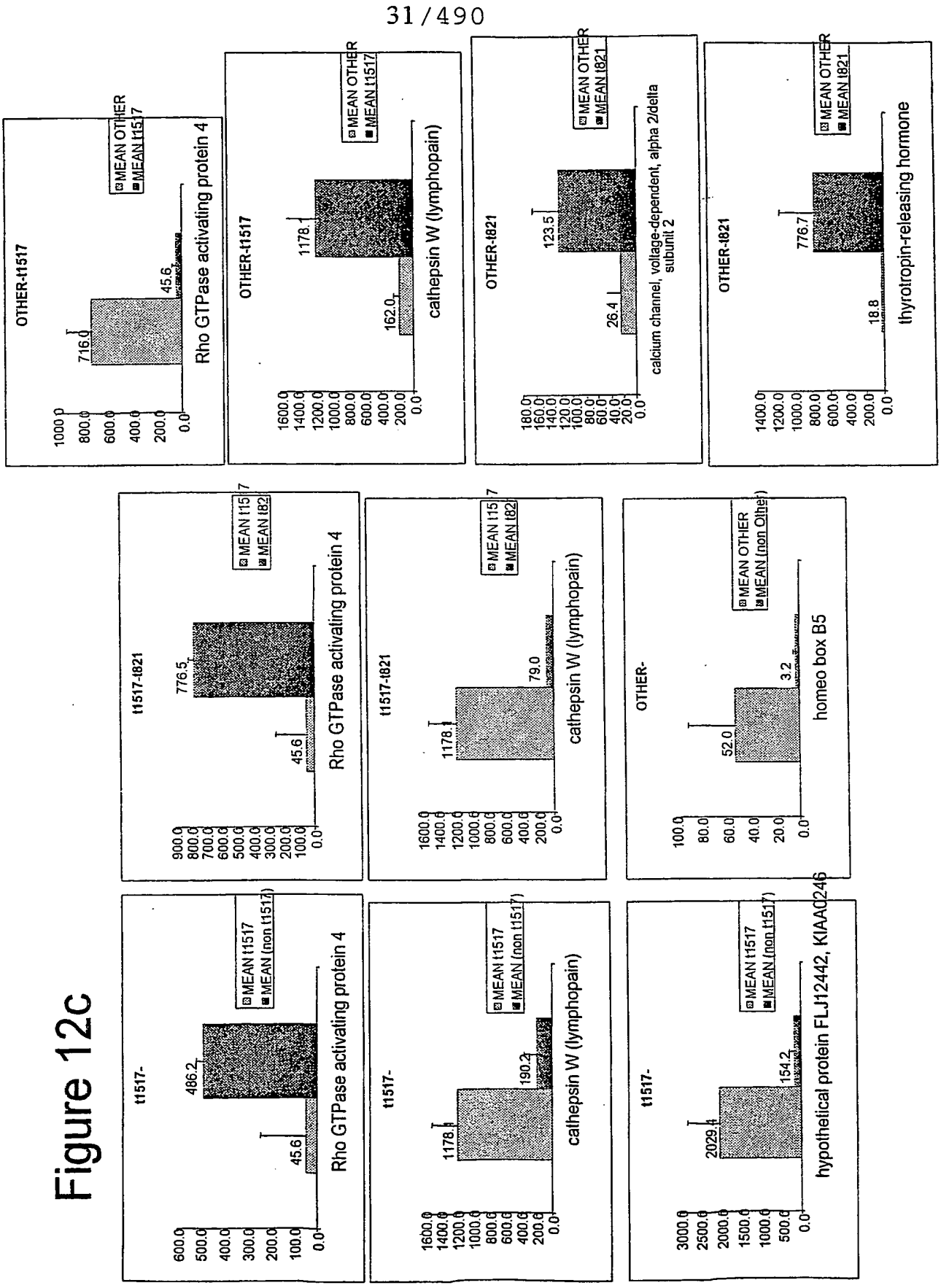

t1517-
Rho GTPase activating protein 4
MEAN t1517
MEAN (non t1517)
t1517-
cathepsin W (lymphopain)
MEAN t1517
MEAN (non t1517)
t1517-
hypothetical protein FLJ12442, KIAA0246
MEAN t1517
MEAN (non t1517)
t1517-t821
Rho GTPase activating protein 4
MEAN t15 7
MEAN t82
t1517-t821
cathepsin W (lymphopain)
MEAN t15 7
MEAN t82
OTHER-
homeo box B5
MEAN OTHER
MEAN (non Other)
OTHER-t1517
Rho GTPase activating protein 4
MEAN OTHER
MEAN t1517
OTHER-t1517
cathepsin W (lymphopain)
MEAN OTHER
MEAN t1517
OTHER-t821
calcium channel, voltage-dependent, alpha 2/delta subunit 2
MEAN OTHER
MEAN t821
OTHER-t821
thyrotropin-releasing hormone
MEAN OTHER
MEAN t821

Figure 12d

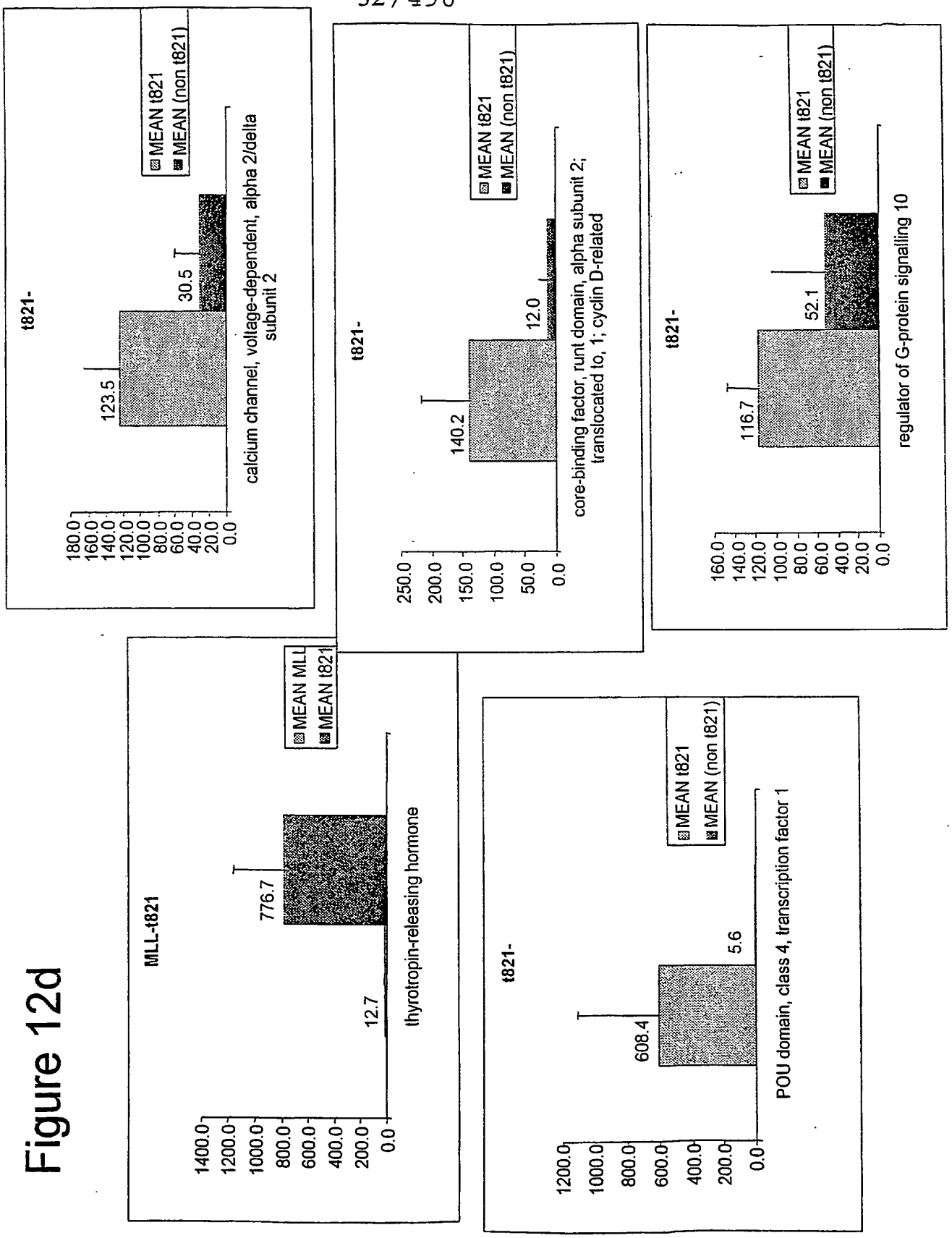
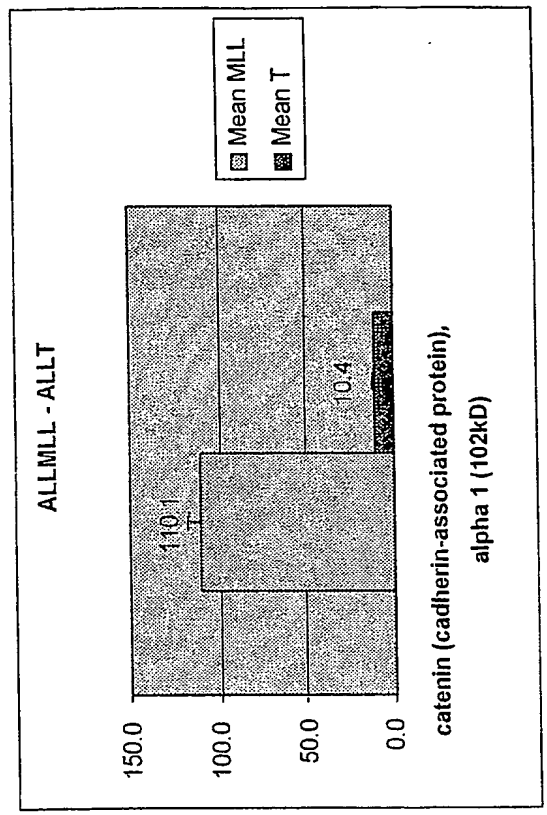
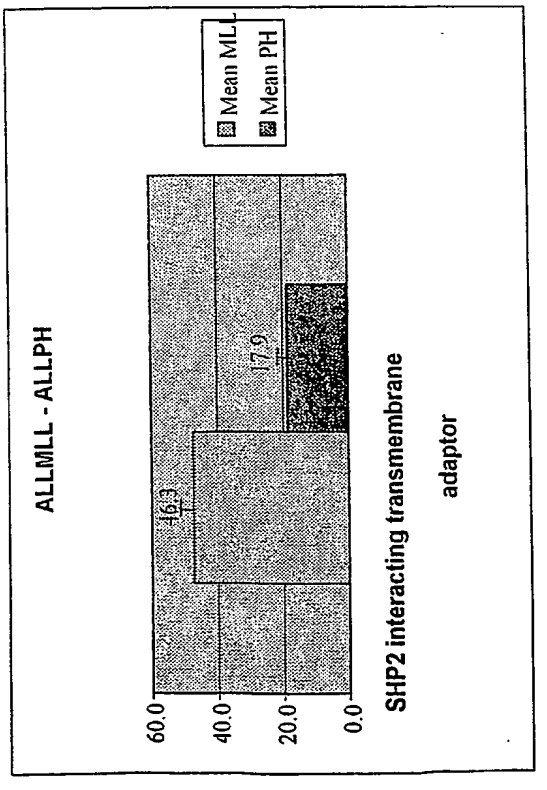
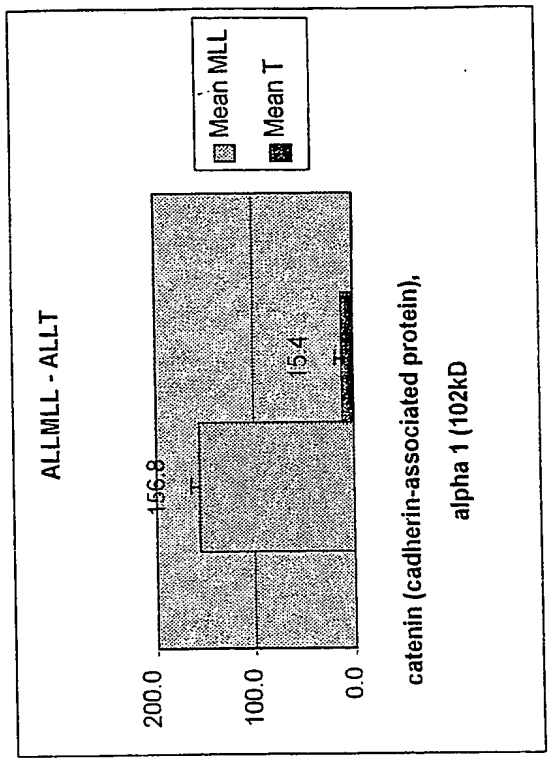

t821-
calcium channel, voltage-dependent, alpha 2/delta subunit 2
MEAN t821
MEAN (non t821)
123.5
30.5
180.0
160.0
140.0
120.0
100.0
80.0
60.0
40.0
20.0
0.0
t821-
core-binding factor, runt domain, alpha subunit 2; translocated to, 1; cyclin D-related
MEAN t821
MEAN (non t821)
140.2
12.0
250.0
200.0
150.0
100.0
50.0
0.0
t821-
regulator of G-protein signalling 10
MEAN t821
MEAN (non t821)
116.7
52.1
160.0
140.0
120.0
100.0
80.0
60.0
40.0
20.0
0.0
MLL-t821
thyrotropin-releasing hormone
MEAN MLL
MEAN t821
776.7
12.7
1400.0
1200.0
1000.0
800.0
600.0
400.0
200.0
0.0
t821-
POU domain, class 4, transcription factor 1
MEAN t821
MEAN (non t821)
608.4
5.6
1200.0
1000.0
800.0
600.0
400.0
200.0
0.0

Figure 12e


ALLMLL - ALLT
Mean MLL
Mean T
150.0
100.0
50.0
0.0
110.1
10.4
catenin (cadherin-associated protein), alpha 1 (102kD)


ALLMLL - ALLPH
Mean MLL
Mean PH
60.0
40.0
20.0
0.0
46.3
17.9
SHP2 interacting transmembrane adaptor


ALLMLL - ALLT
Mean MLL
Mean T
200.0
100.0
0.0
156.8
15.4
catenin (cadherin-associated protein), alpha 1 (102kD

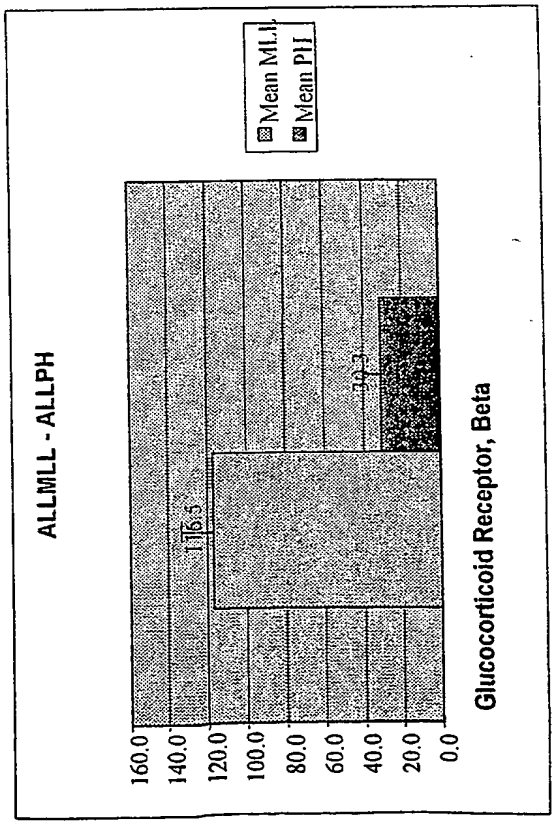

ALLMLL - ALLPH
Mean MLL
Mean PH
160.0
140.0
120.0
100.0
80.0
60.0
40.0
20.0
0.0
116.5
Glucocorticoid Receptor, Beta

Figure 12f

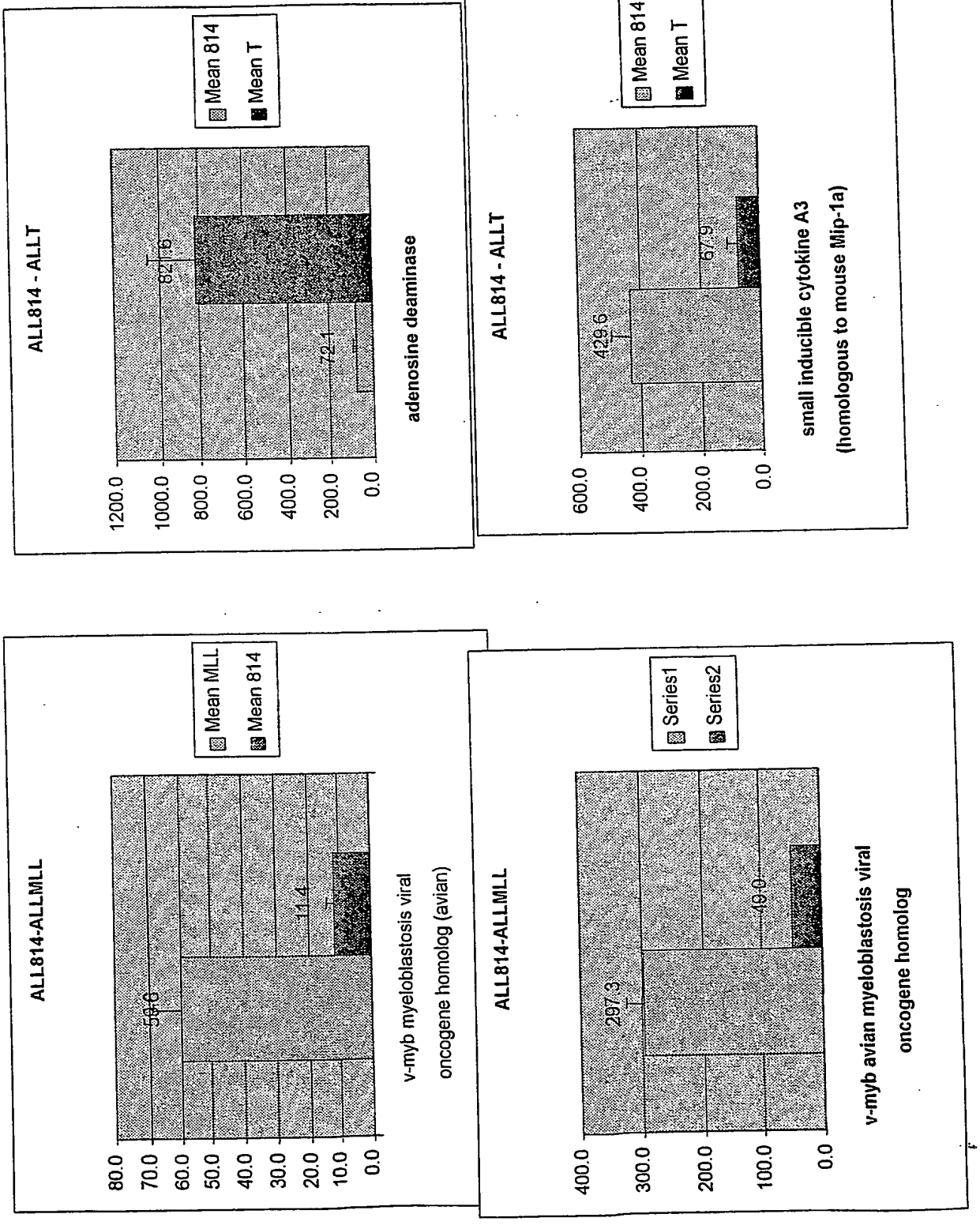
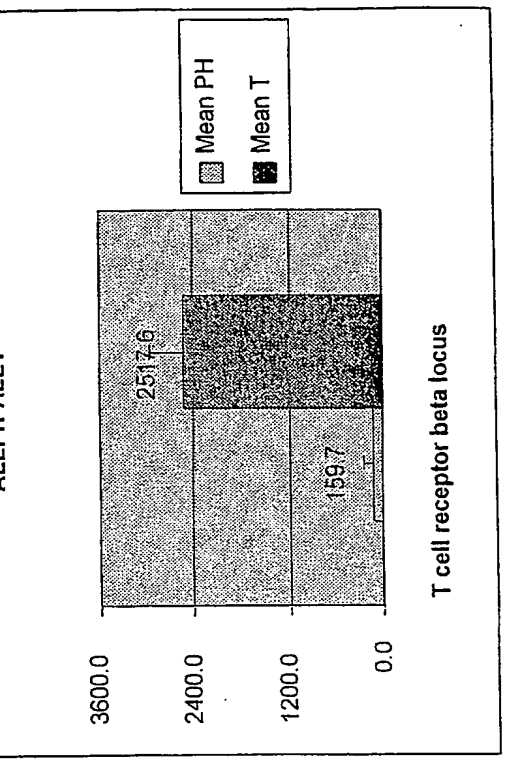
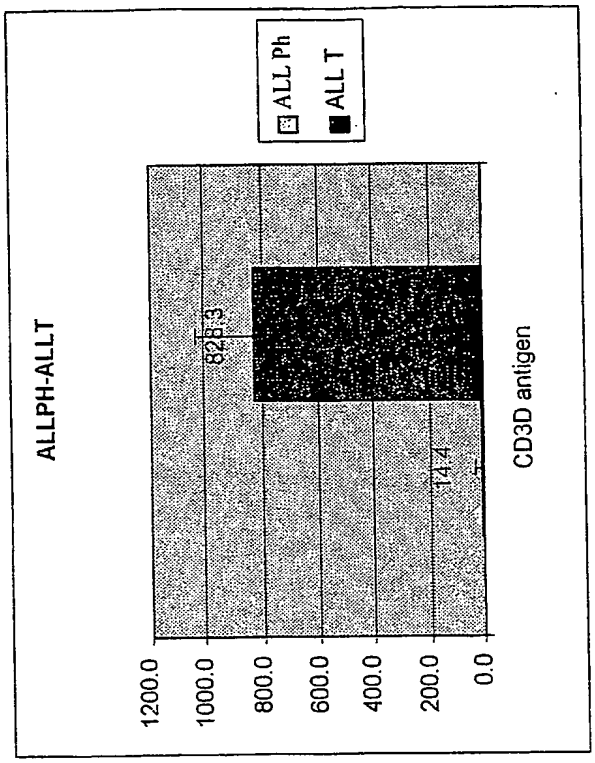
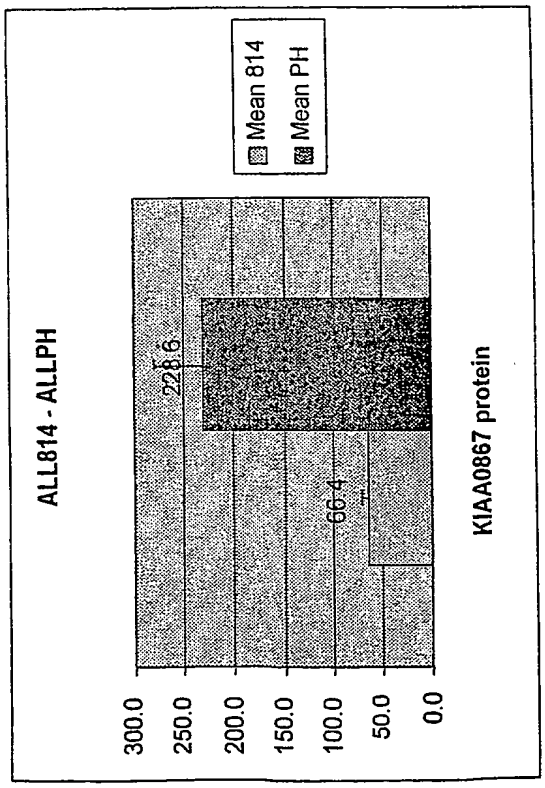

ALL814 - ALLT
Mean 814
Mean T
1200.0
1000.0
800.0
600.0
400.0
200.0
0.0
82.6
72.1
adenosine deaminase
ALL814 - ALLT
Mean 814
Mean T
600.0
400.0
200.0
0.0
429.6
67.9
small inducible cytokine A3
(homologous to mouse Mip-1a)
ALL814-ALLMLL
Mean MLL
Mean 814
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
59.6
11.4
v-myb myeloblastosis viral
oncogene homolog (avian)
ALL814-ALLMLL
Series1
Series2
400.0
300.0
200.0
100.0
0.0
297.3
40.0
v-myb avian myeloblastosis viral
oncogene homolog

Figure 12g


ALLPH-ALLT
Mean PH
Mean T
2517.6
159.7
3600.0
2400.0
1200.0
0.0
T cell receptor beta locus


ALLPH-ALLT
ALL Ph
ALL T
828.3
74.4
1200.0
1000.0
800.0
600.0
400.0
200.0
0.0
CD3D antigen


ALL814 - ALLPH
Mean 814
Mean PH
228.6
66.4
300.0
250.0
200.0
150.0
100.0
50.0
0.0
KIAA0867 protein

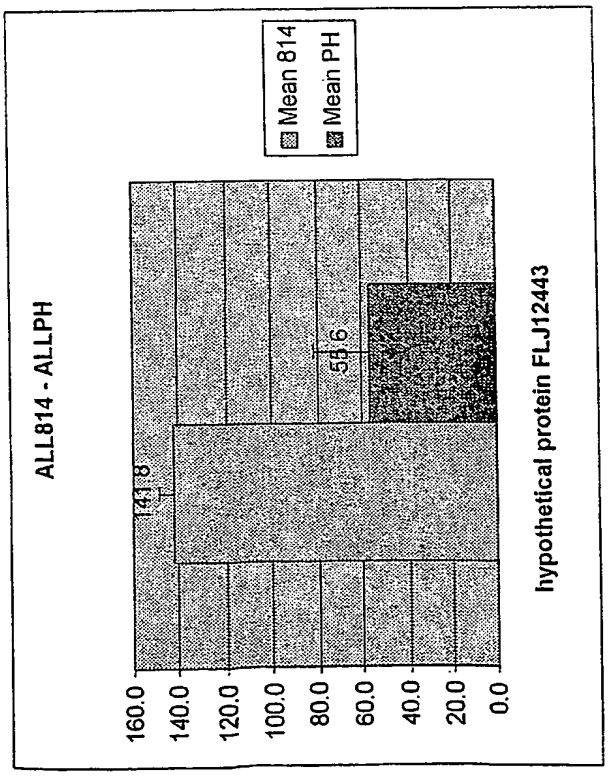

ALL814 - ALLPH
Mean 814
Mean PH
141.8
55.6
160.0
140.0
120.0
100.0
80.0
60.0
40.0
20.0
0.0
hypothetical protein FLJ12443

Figure 12h

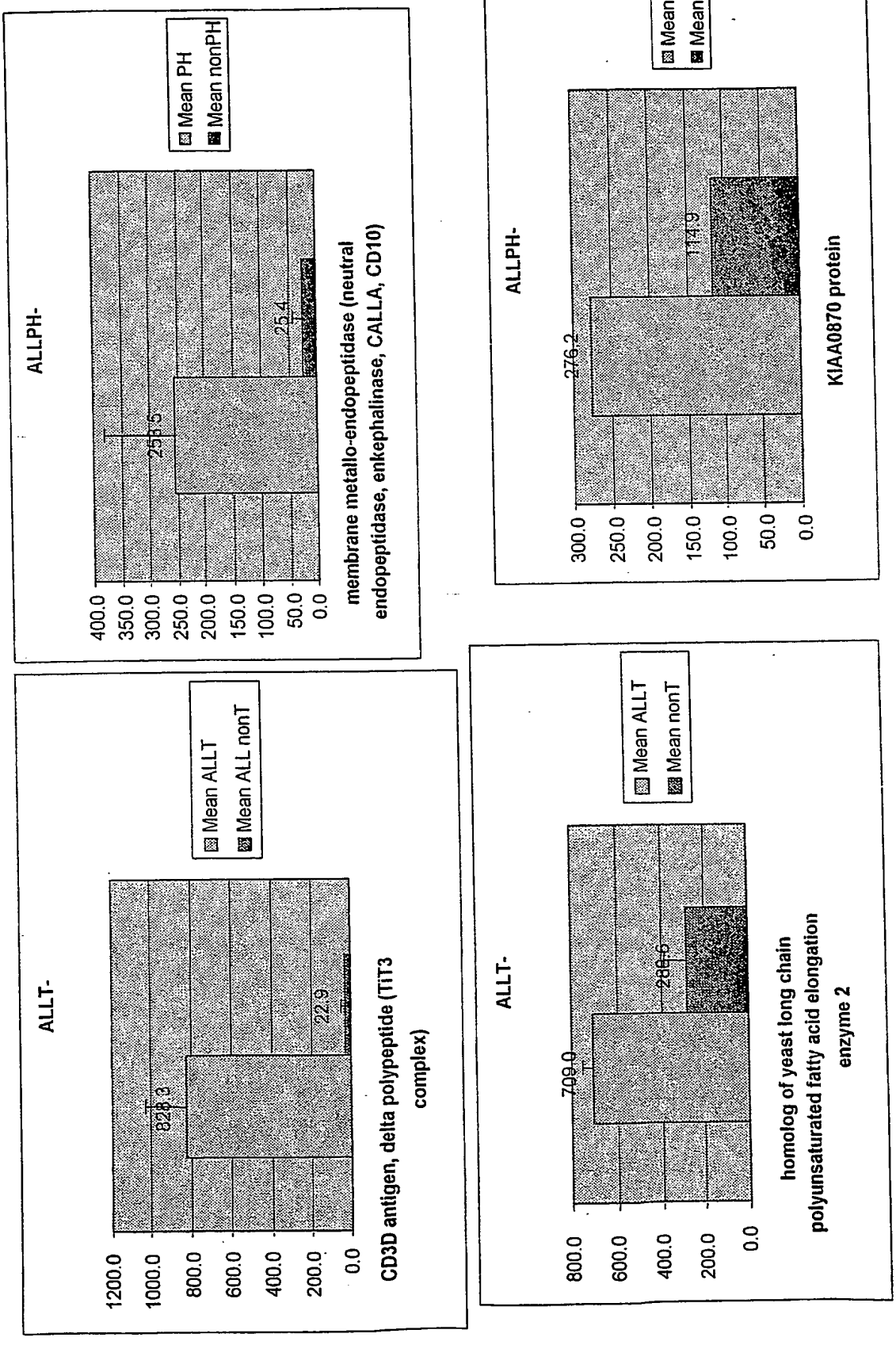
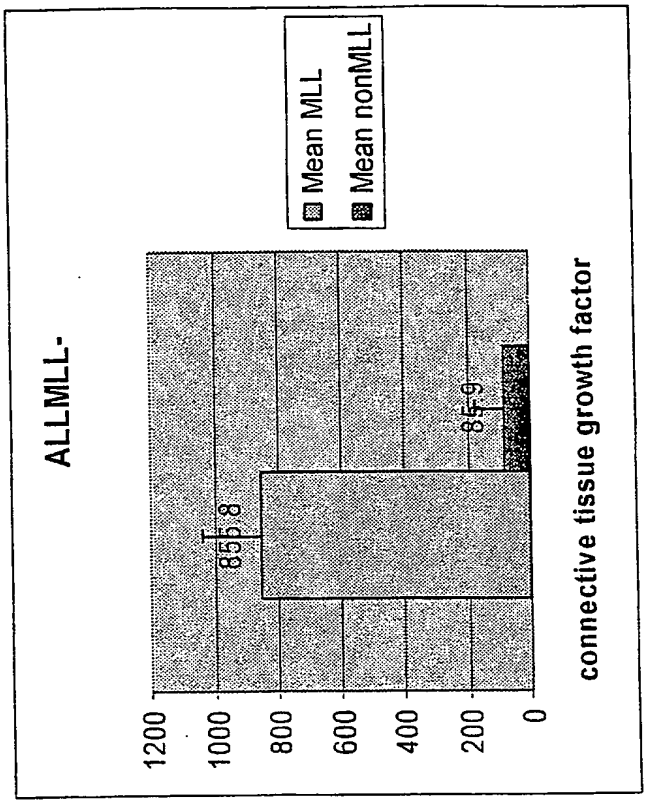
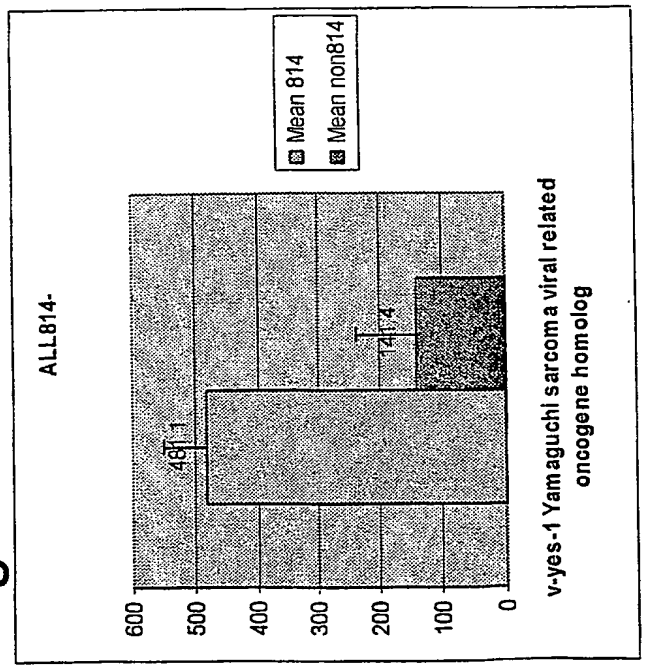
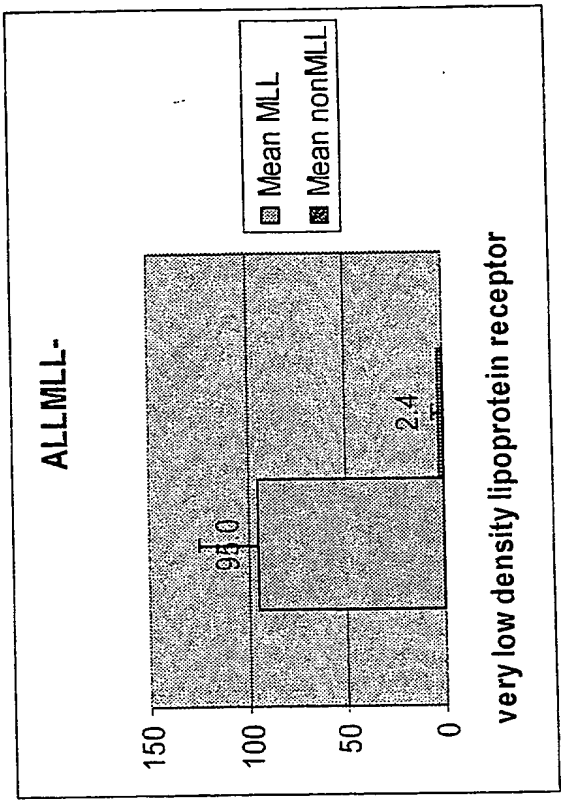

ALLT-
Mean ALLT
Mean ALL nonT
1200.0
1000.0
800.0
600.0
400.0
200.0
0.0
828.3
22.9
CD3D antigen, delta polypeptide (TiT3 complex)
ALLPH-
Mean PH
Mean nonPH
400.0
350.0
300.0
250.0
200.0
150.0
100.0
50.0
0.0
25.4
membrane metallo-endopeptidase (neutral endopeptidase, enkephalinase, CALLA, CD10)
ALLPH-
Mean PH
Mean nonPH
300.0
250.0
200.0
150.0
100.0
50.0
0.0
276.2
114.9
KIAA0870 protein
ALLT-
Mean ALLT
Mean nonT
800.0
600.0
400.0
200.0
0.0
709.0
286.6
homolog of yeast long chain polyunsaturated fatty acid elongation enzyme 2

Figure 12i


ALLMLL-
Mean MLL
Mean nonMLL
1200
1000
800
600
400
200
0
85.8
85.9
connective tissue growth factor


ALL814-
Mean 814
Mean non814
600
500
400
300
200
100
0
48.1
12.4
v-yes-1 Yamaguchi sarcoma viral related oncogene homolog


ALLMLL-
Mean MLL
Mean nonMLL
150
100
50
0
93.0
2.4
very low density lipoprotein receptor

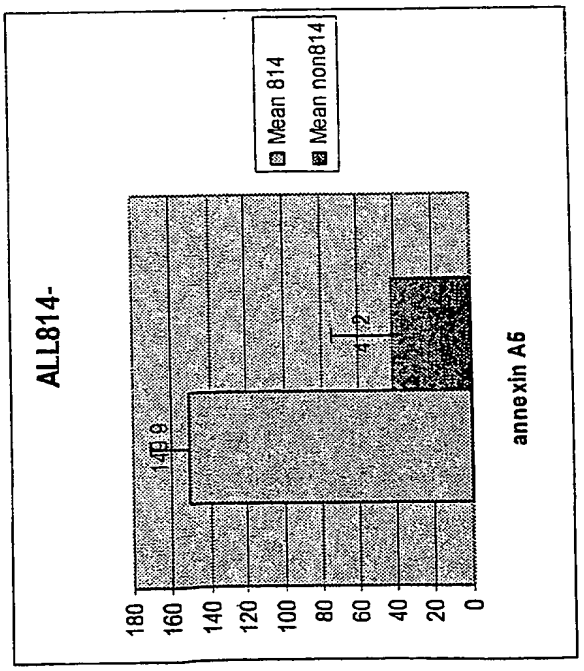
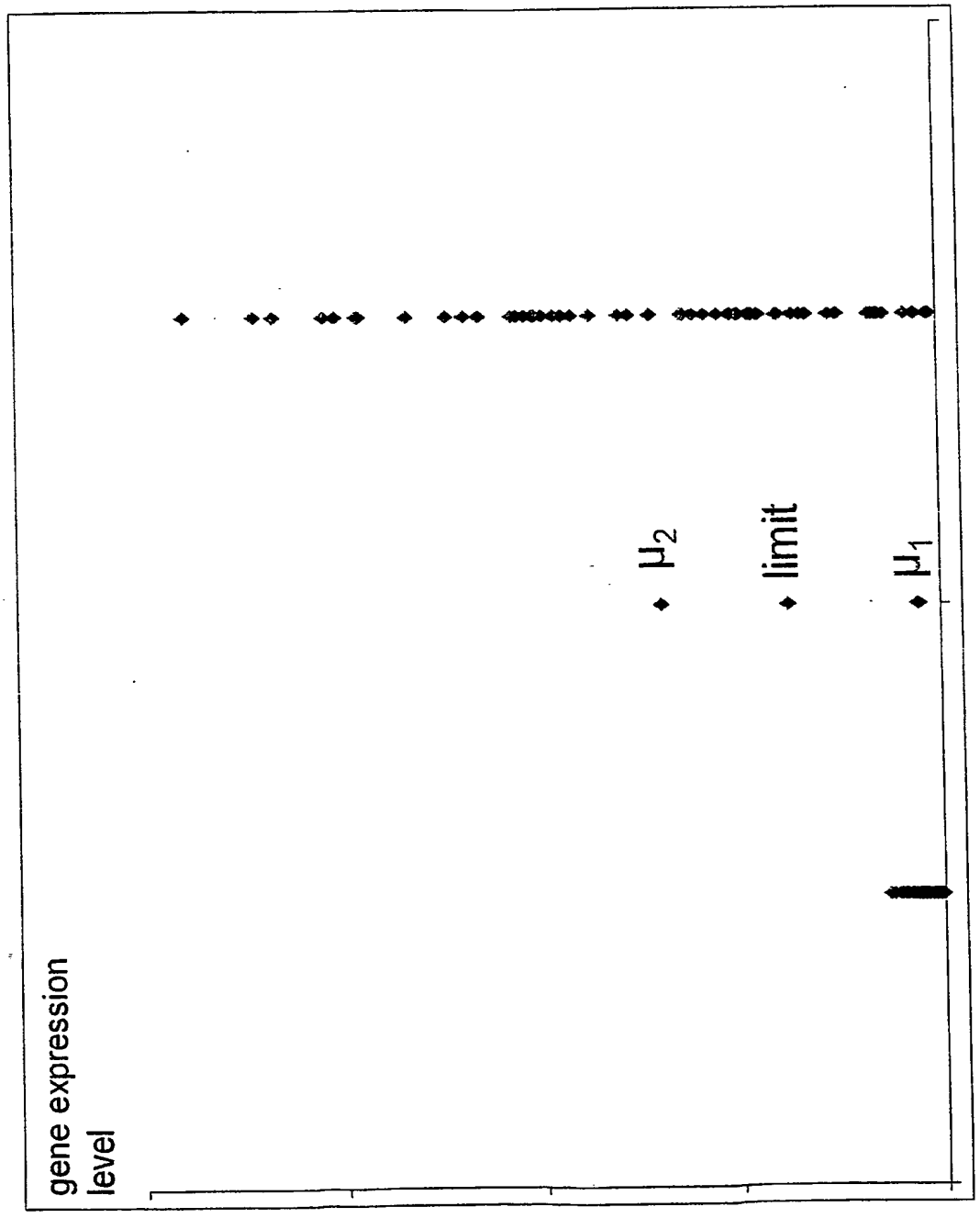

ALL814-
Mean 814
Mean non814
180
160
140
120
100
80
60
40
20
0
14.9
4.2
annexin A5

Figure 13a



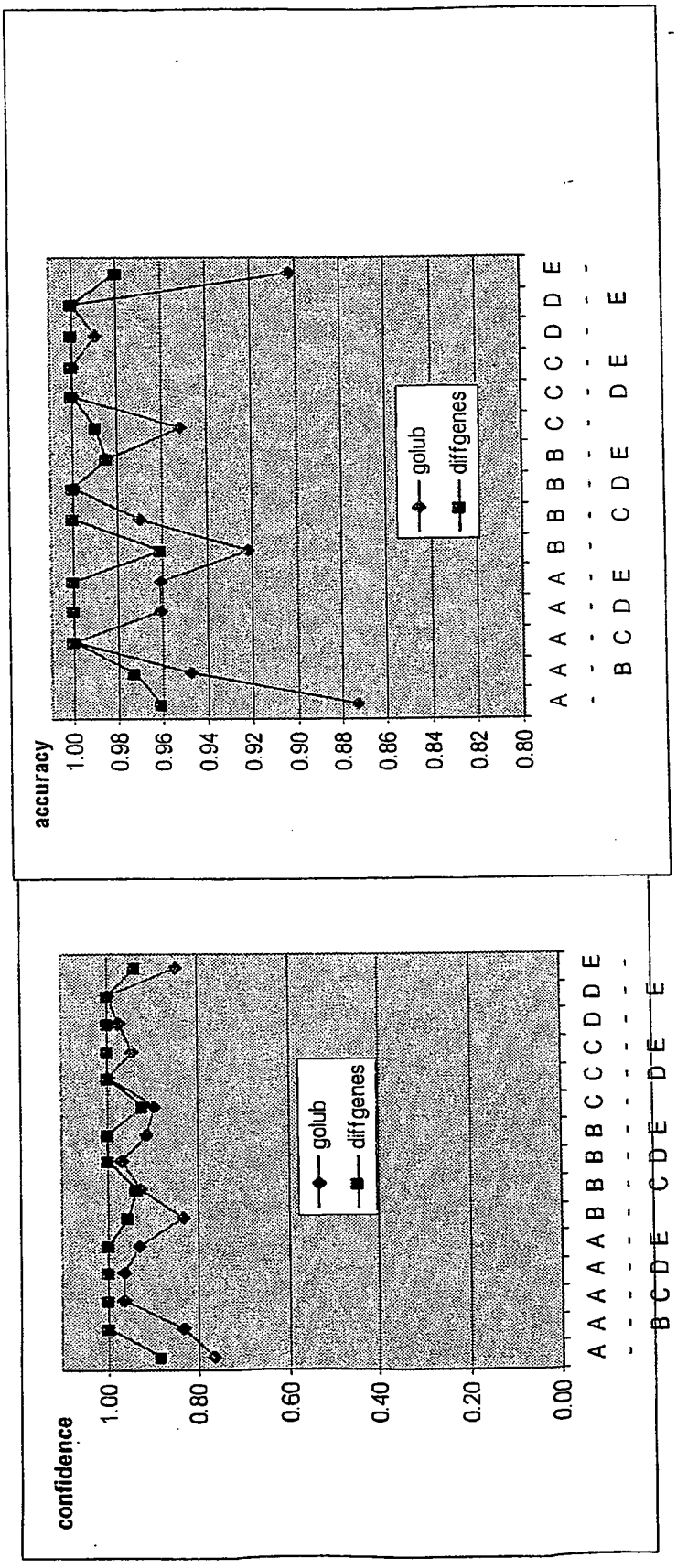

accuracy
1.00
0.98
0.96
0.94
0.92
0.90
0.88
0.86
0.84
0.82
0.80
golub
diffgenes
A A A A B B B B C C C D D E
- - - - - - - - - - - - - -
B C D E C D E D E E
confidence
1.00
0.80
0.60
0.40
0.20
0.00
golub
diffgenes
A A A A B B B B C C C D D E
- - - - - - - - - - - - - -
B C D E C D E D E E

Figure 13b

Figure 14

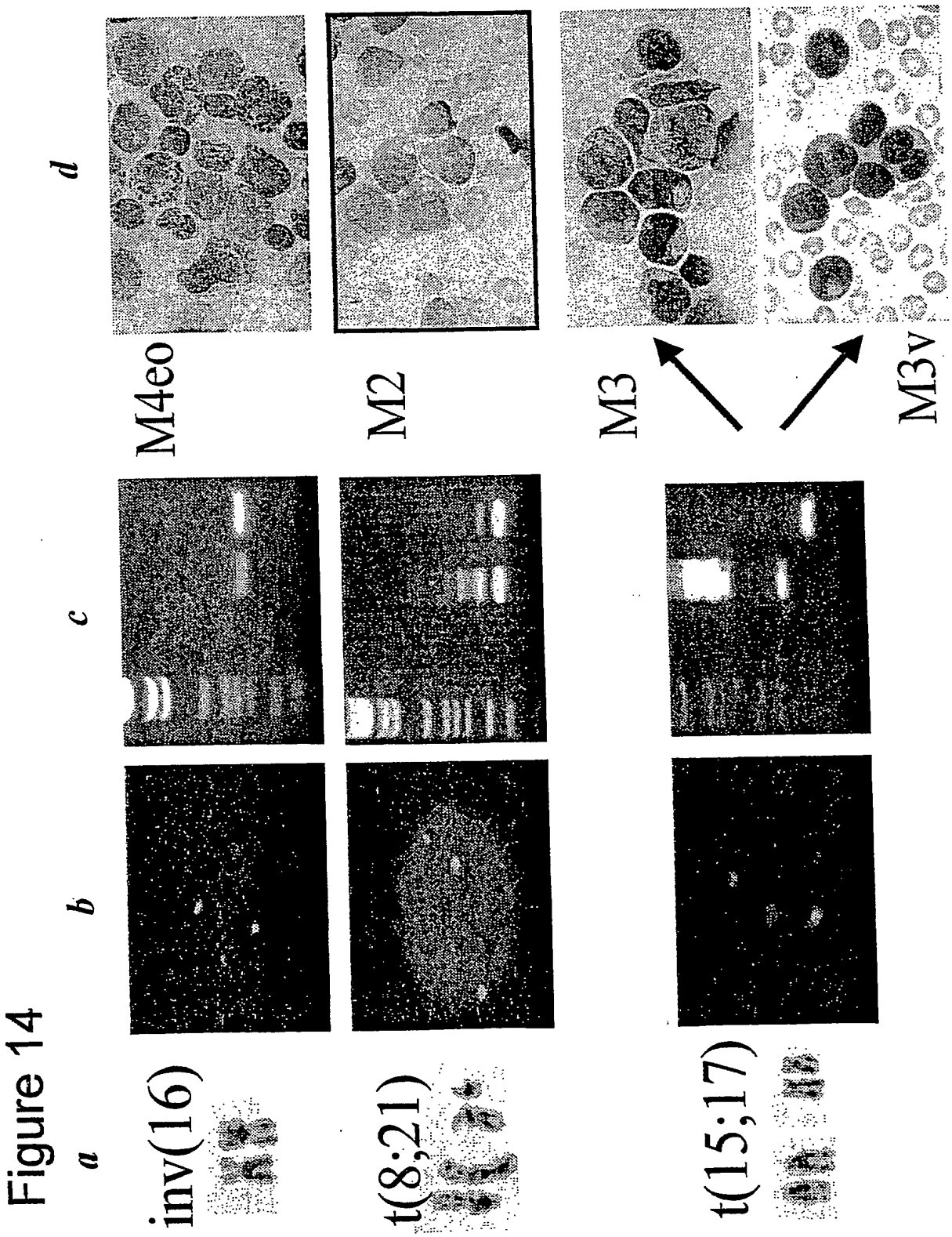
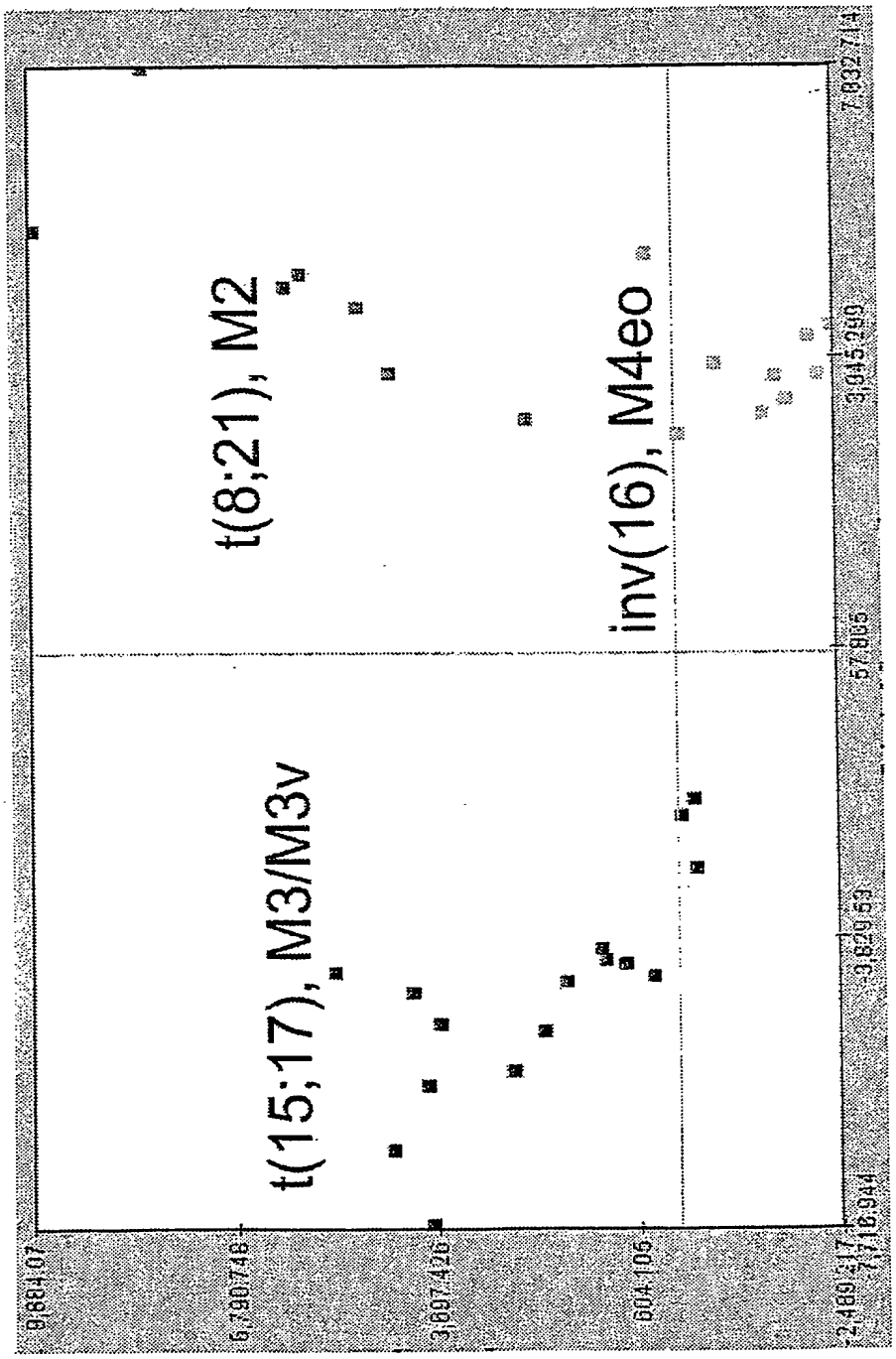


Figure 15



BNSDOCID: <WO_____03039443A2_I_>

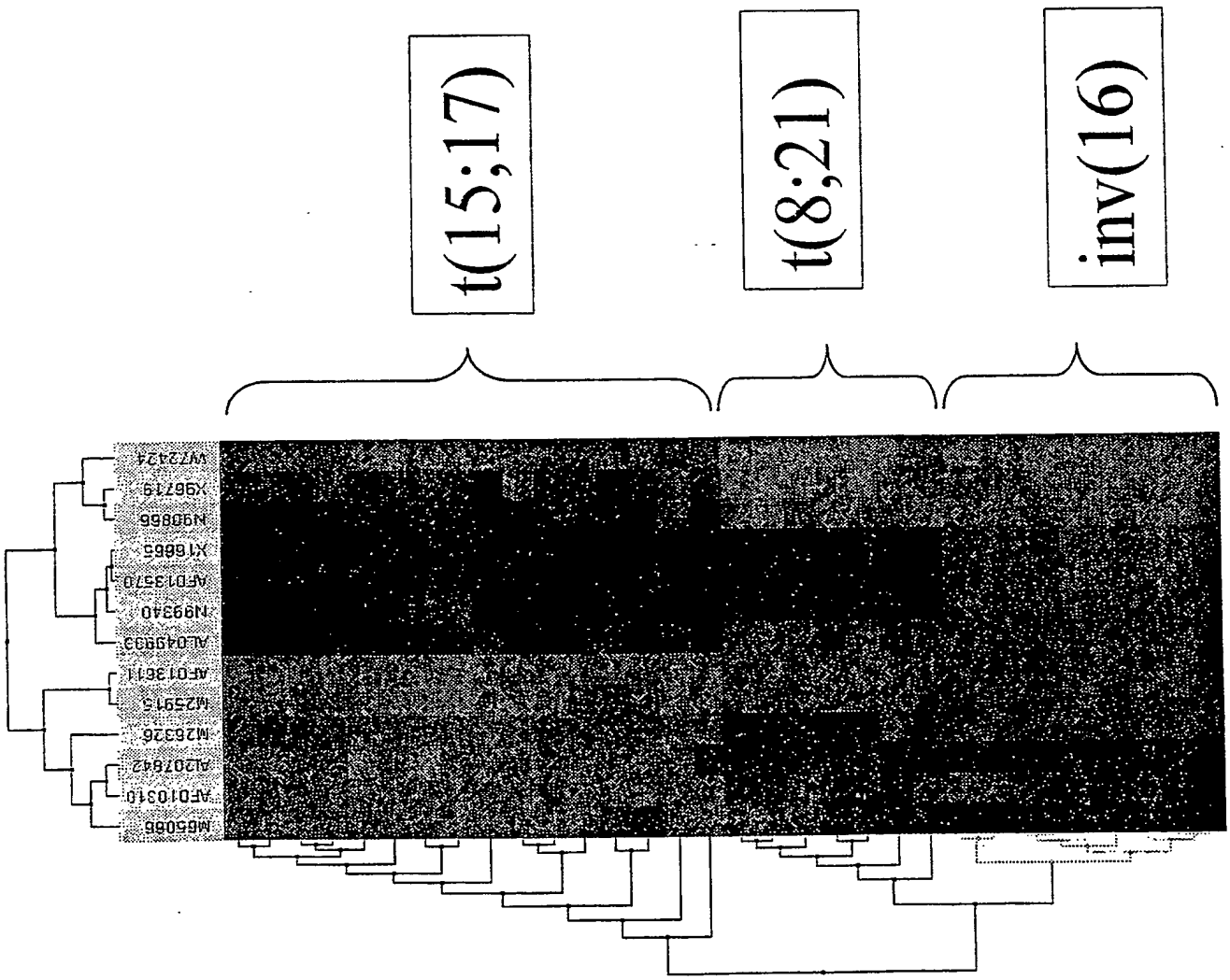

t(15;17)
t(8;21)
inv(16)
M65086
AF010310
AJ207642
M26326
M25915
AF013611
AL049933
N99340
AF013710
X16865
N90856
X96719
W72424

Figure 16

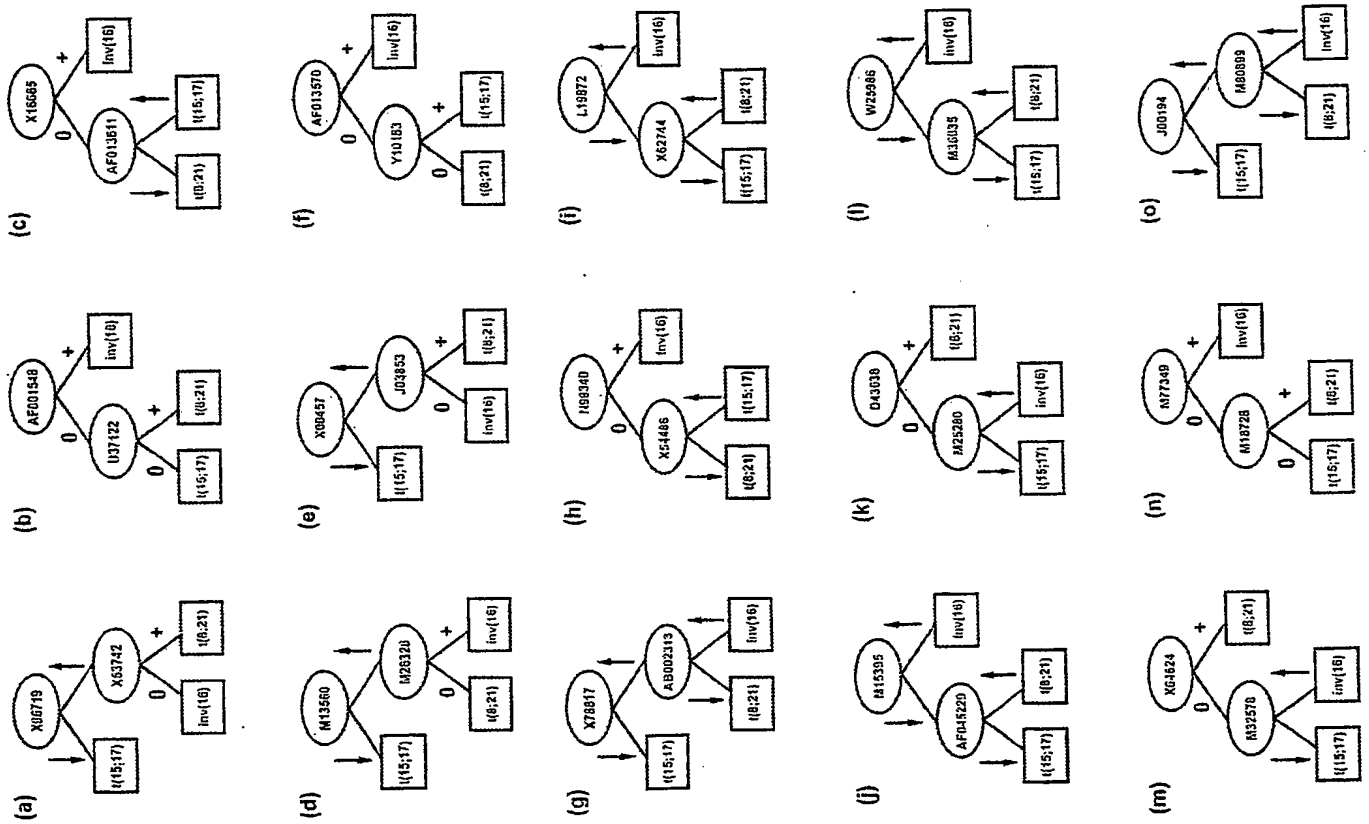

(a)
X06719
X63742
t(15;17)
t(8;21)
inv(16)
(b)
AF001548
U37122
t(15;17)
t(8;21)
inv(16)
(c)
X16665
AF013811
t(15;17)
t(8;21)
inv(16)
(d)
M13560
M28328
t(15;17)
t(8;21)
inv(16)
(e)
X08457
J03853
t(15;17)
t(8;21)
inv(16)
(f)
AF013570
Y10163
t(15;17)
t(8;21)
inv(16)
(g)
X78817
AB002313
t(15;17)
t(8;21)
inv(16)
(h)
Z69340
X54486
t(15;17)
t(8;21)
inv(16)
(i)
L19872
X62744
t(15;17)
t(8;21)
inv(16)
(j)
M15395
AF045229
t(15;17)
t(8;21)
inv(16)
(k)
D43038
M25280
t(15;17)
inv(16)
t(8;21)
(l)
W25986
M36035
t(15;17)
t(8;21)
inv(16)
(m)
X04624
M32578
t(15;17)
inv(16)
t(8;21)
(n)
M77349
M18728
t(15;17)
t(8;21)
inv(16)
(o)
J00194
M80899
t(15;17)
t(8;21)
inv(16)

Figure 17

Figure 18

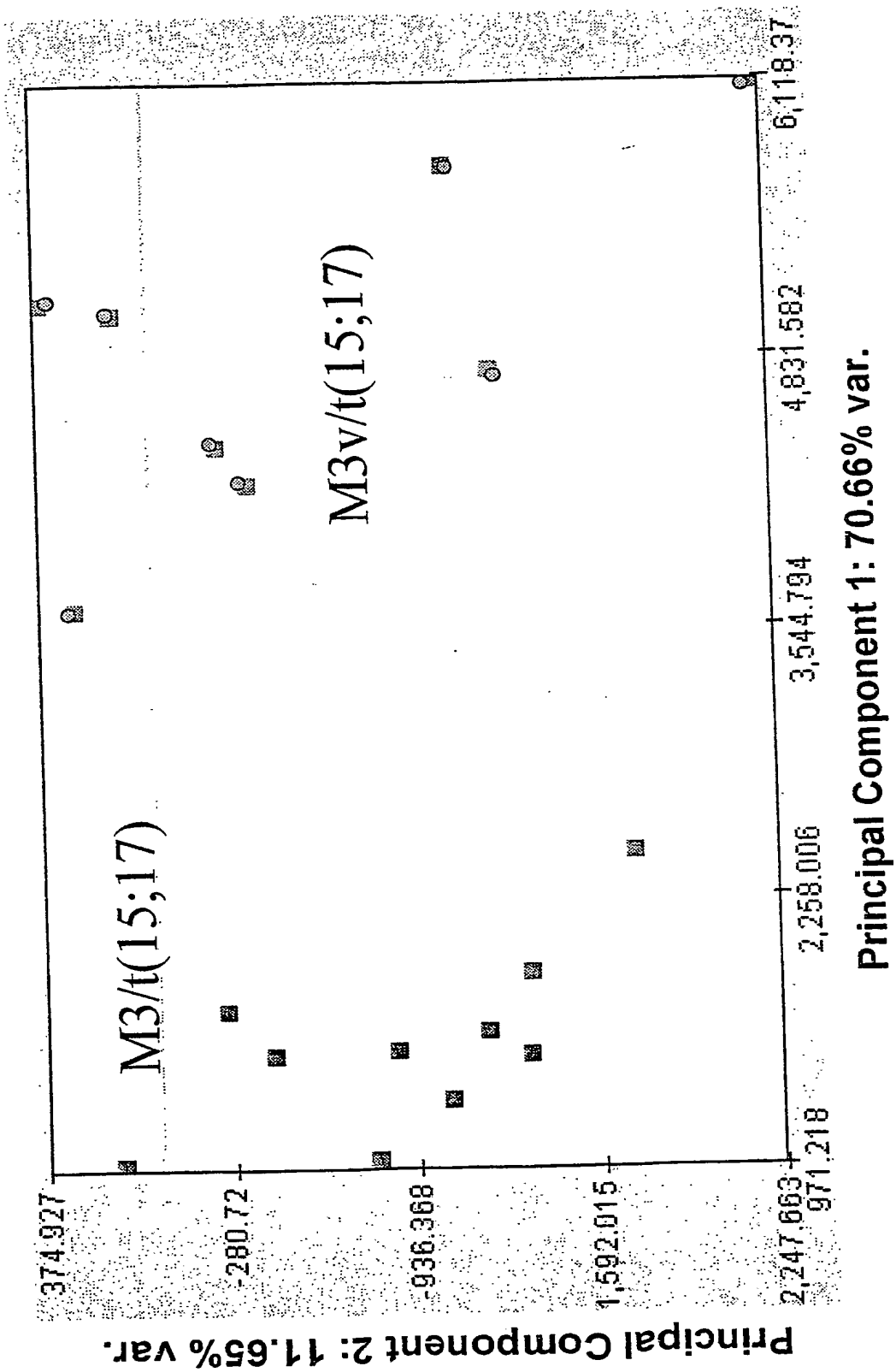
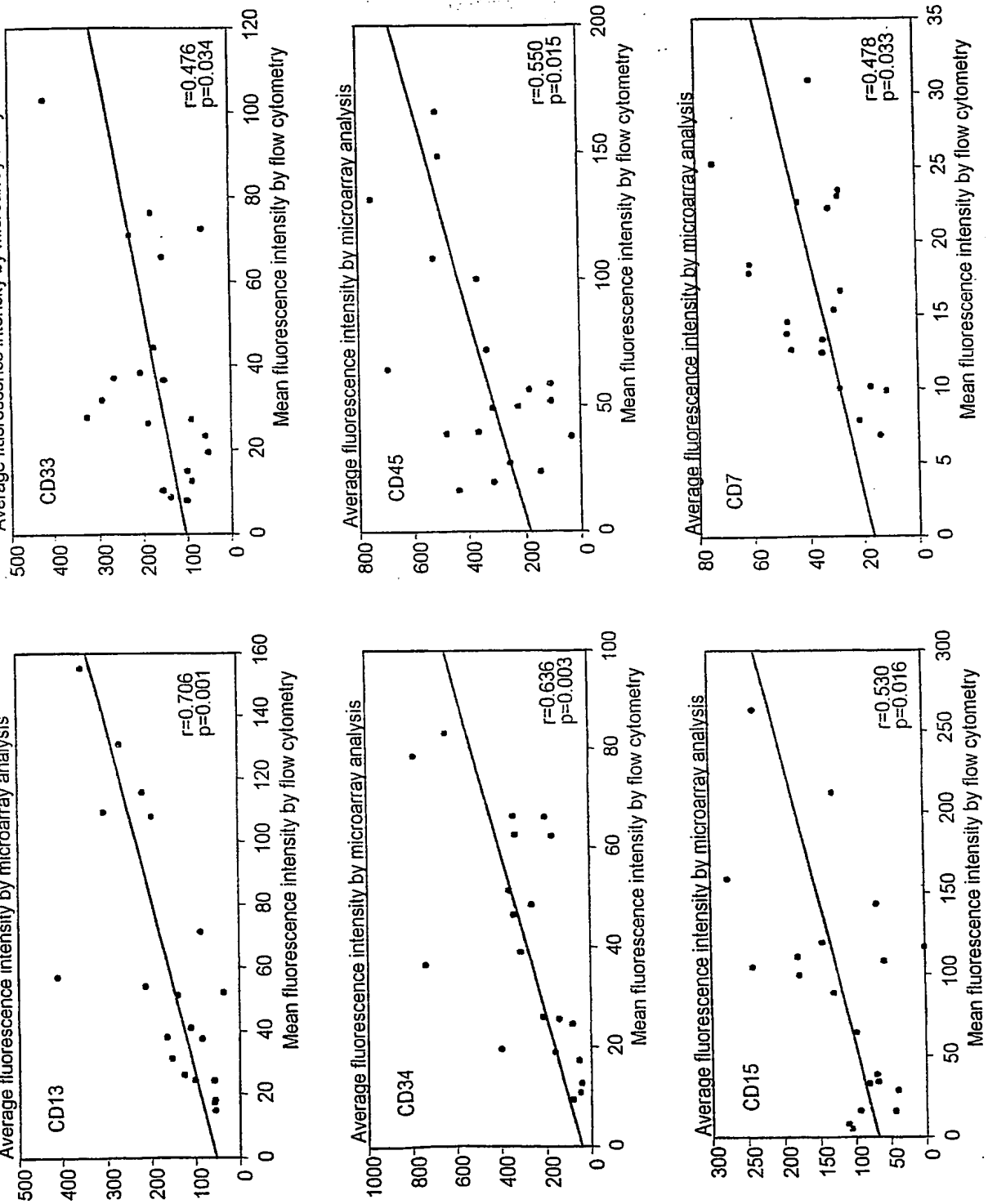
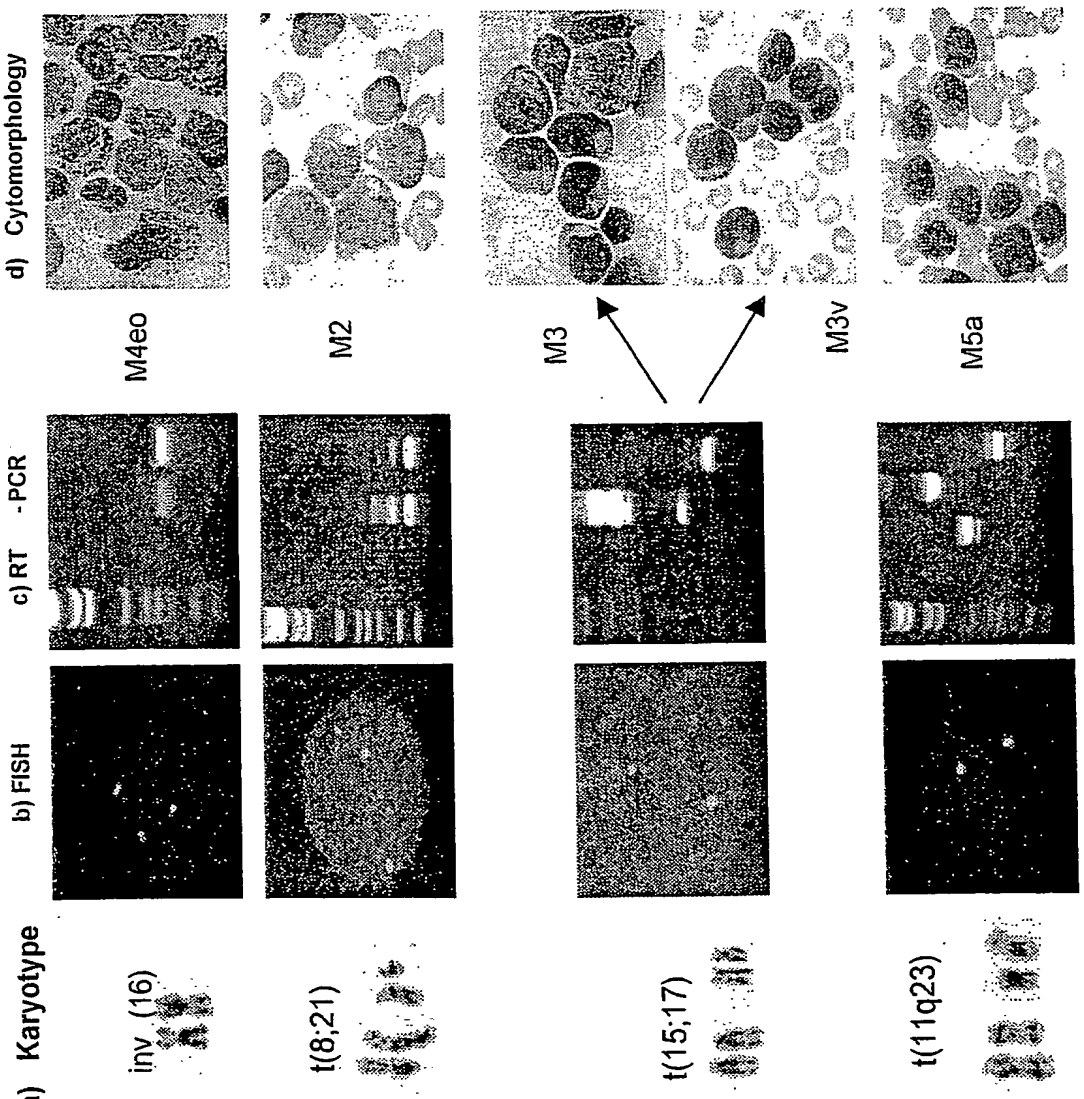

M3/t(15;17)
M3v/t(15;17)
-374.927
-280.72
-936.368
1,592.015
2,247.663
971.218
2,258.006
3,544.794
4,831.582
6,118.37
Principal Component 1: 70.66% var.
Principal Component 2: 11.65% var.

Figure 19



BNSDOCID: <WO_____03039443A2_I_>

Figure 20


a) Karyotype
b) FISH
c) RT -PCR
d) Cytomorphology
inv (16)
t(8;21)
t(15;17)
t(11q23)
M4eo
M2
M3
M3v
M5a

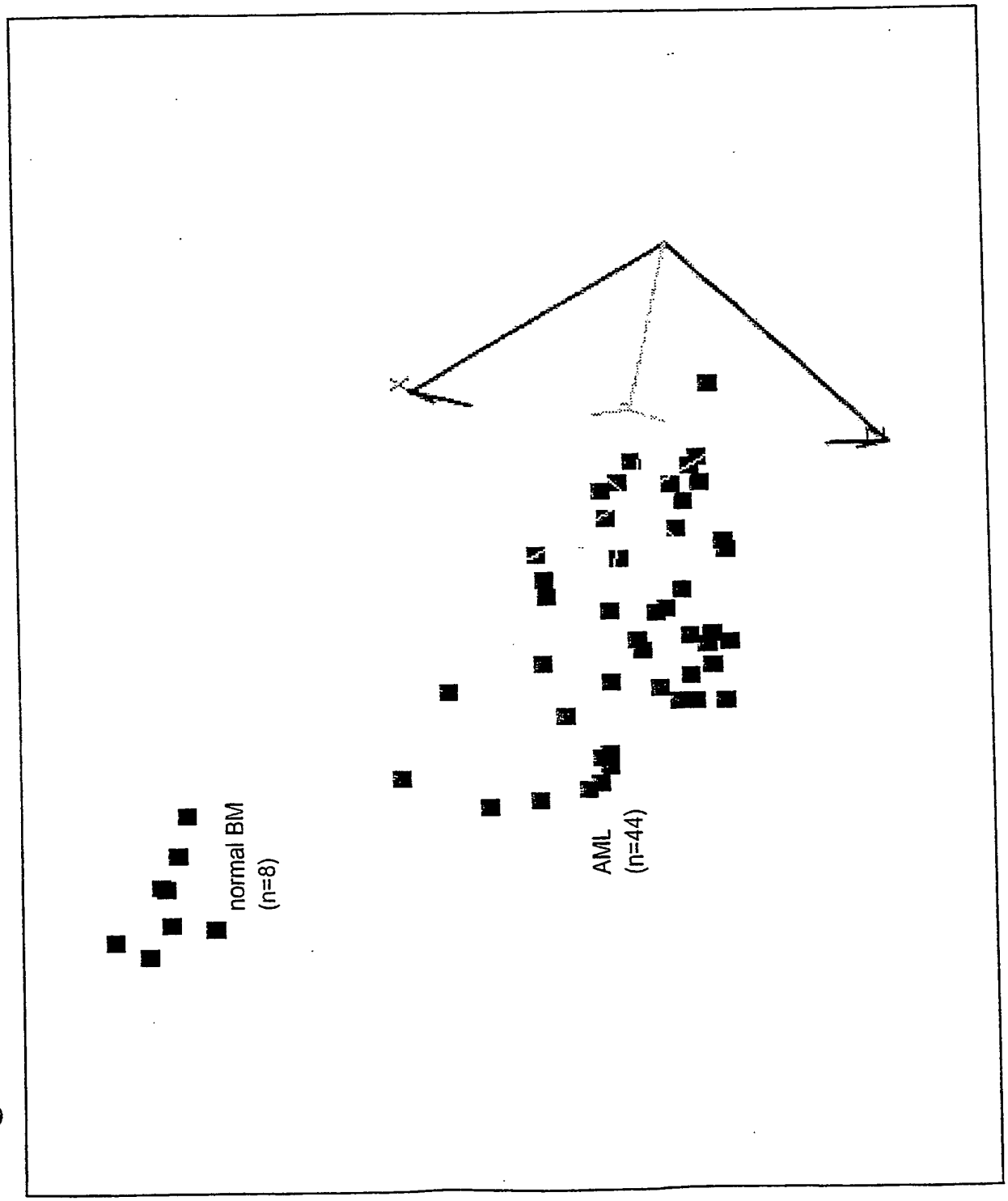


Figure 21

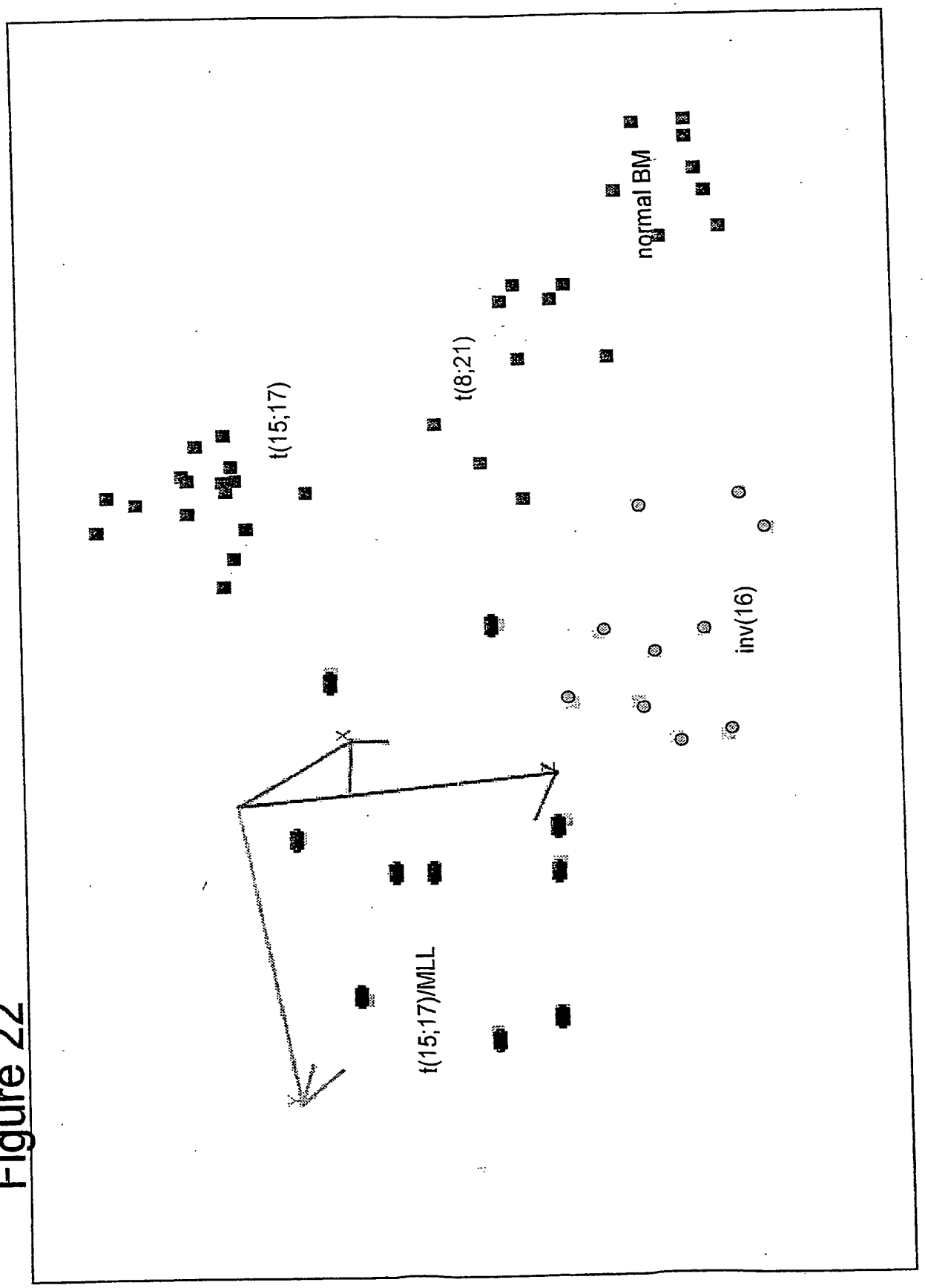


Figure 22

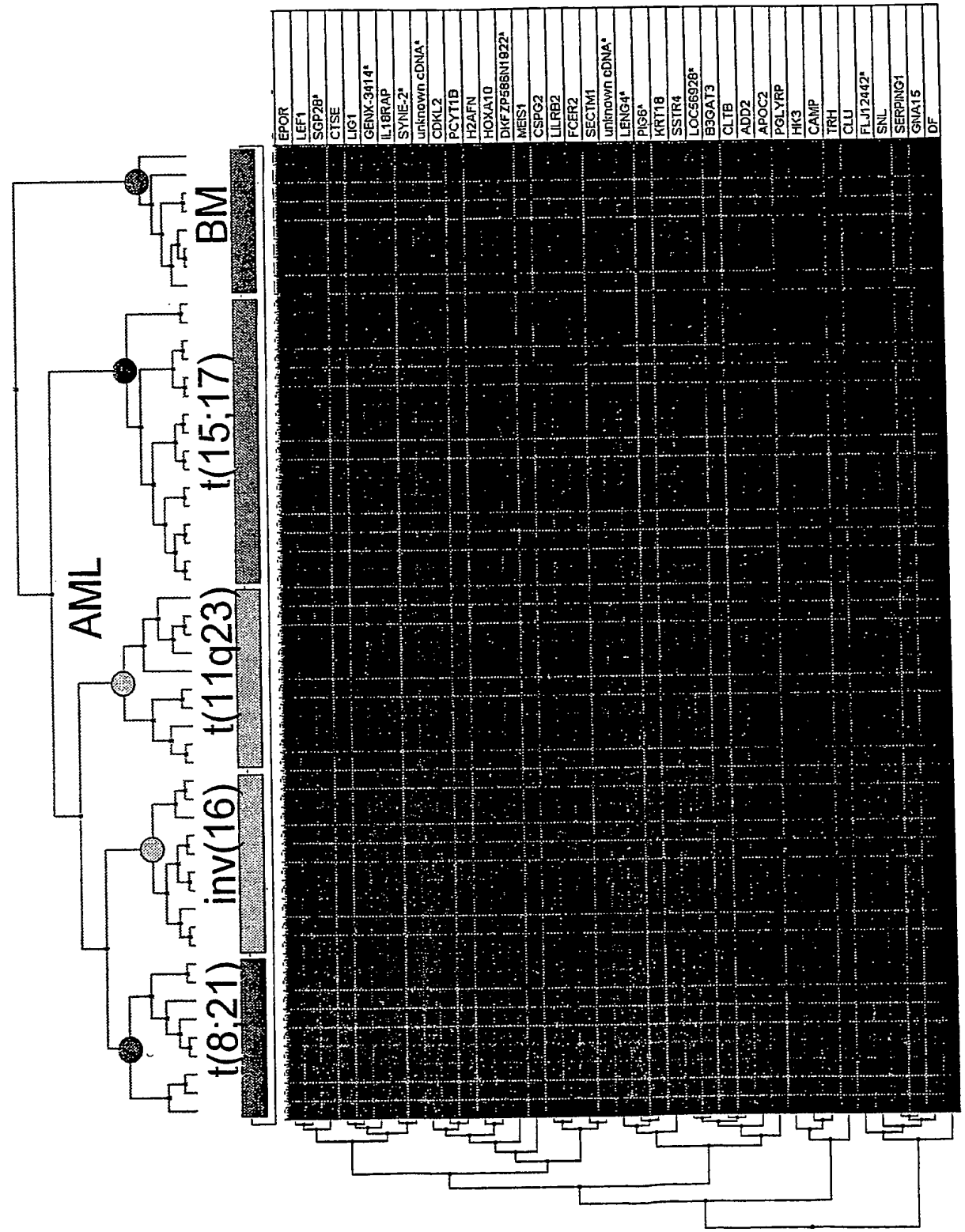

AML
t(8;21)
inv(16)
t(11q23)
t(15;17)
BM
EPOR
LEF1
SGP28*
CTSE
LIG1
GENX-3414*
IL18RAP
SYNE-2*
unknown cDNA*
CDKL2
PCYT1B
H2AFN
HOXA10
DKFZP586N1922*
MEIS1
CSPG2
LILRB2
FCER2
SECTM1
unknown cDNA*
LENG4*
PIG6*
KRT18
SSTR4
LOC56928*
B3GAT3
CLTB
ADD2
APOC2
PGLYRP
HK3
CAMP
TRH
CLU
FLJ12442*
SNL
SERPING1
GNA15
DF

Figure 23

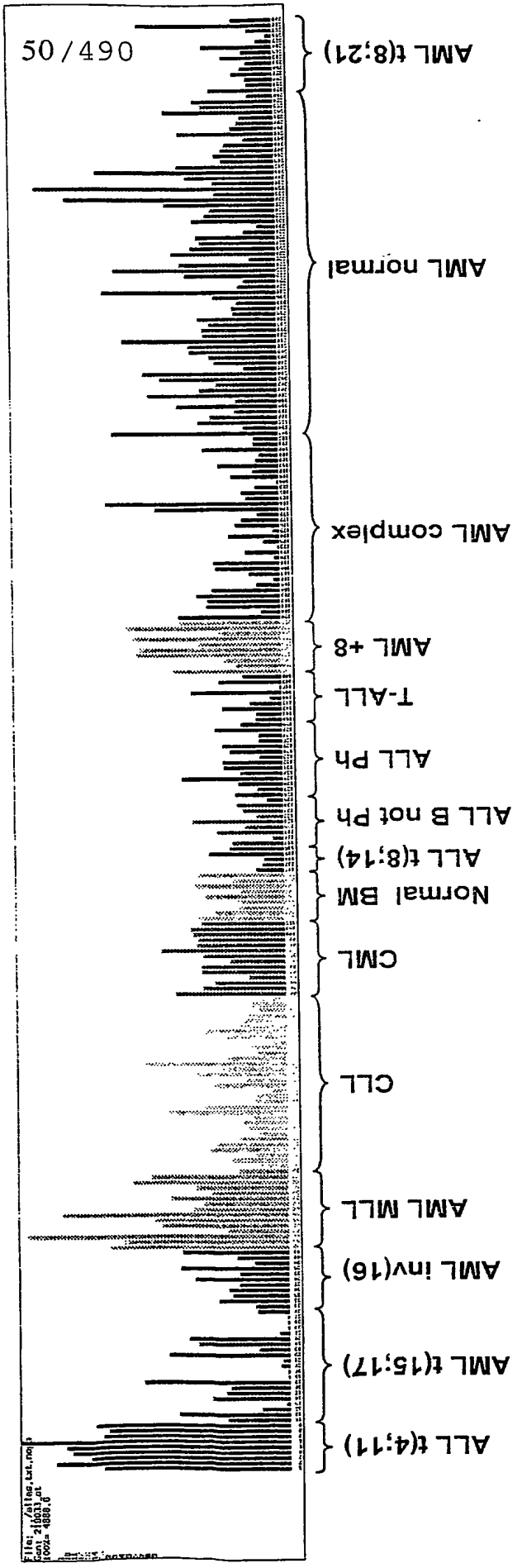

219033_at, FLJ21308, ALL t(4;11) vs. all other
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 24

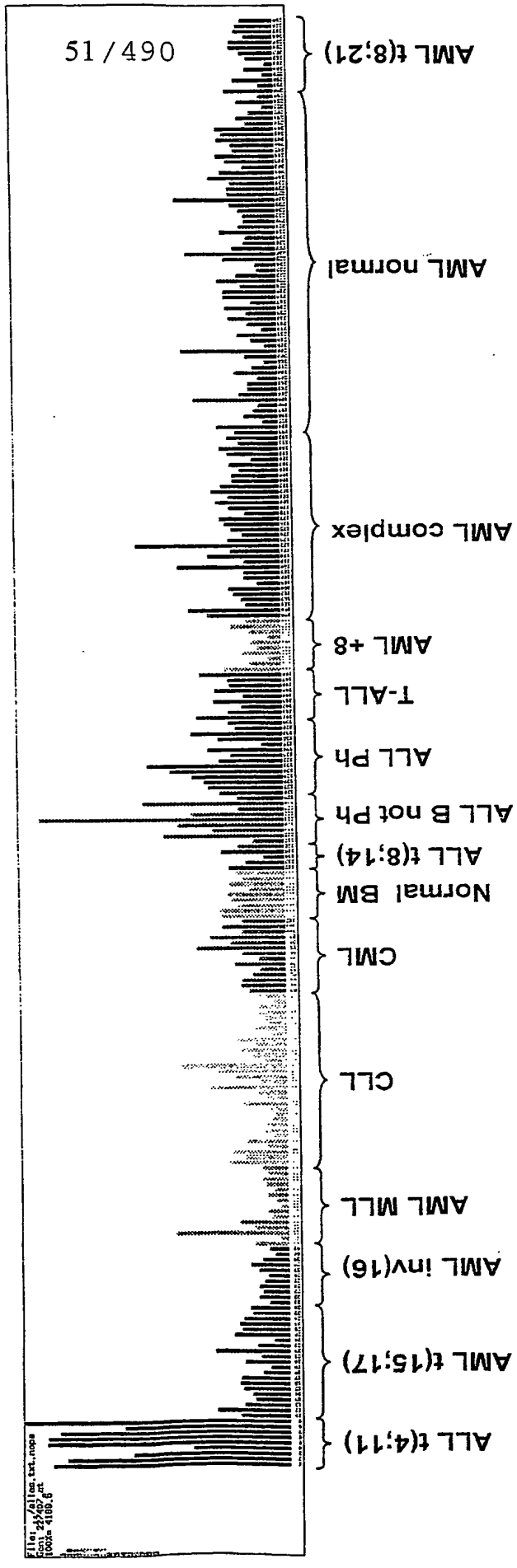

227407_at, ALL t(4;11) vs. all others
51/490
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 25

239214_at, ALL t(4;11) vs. all others

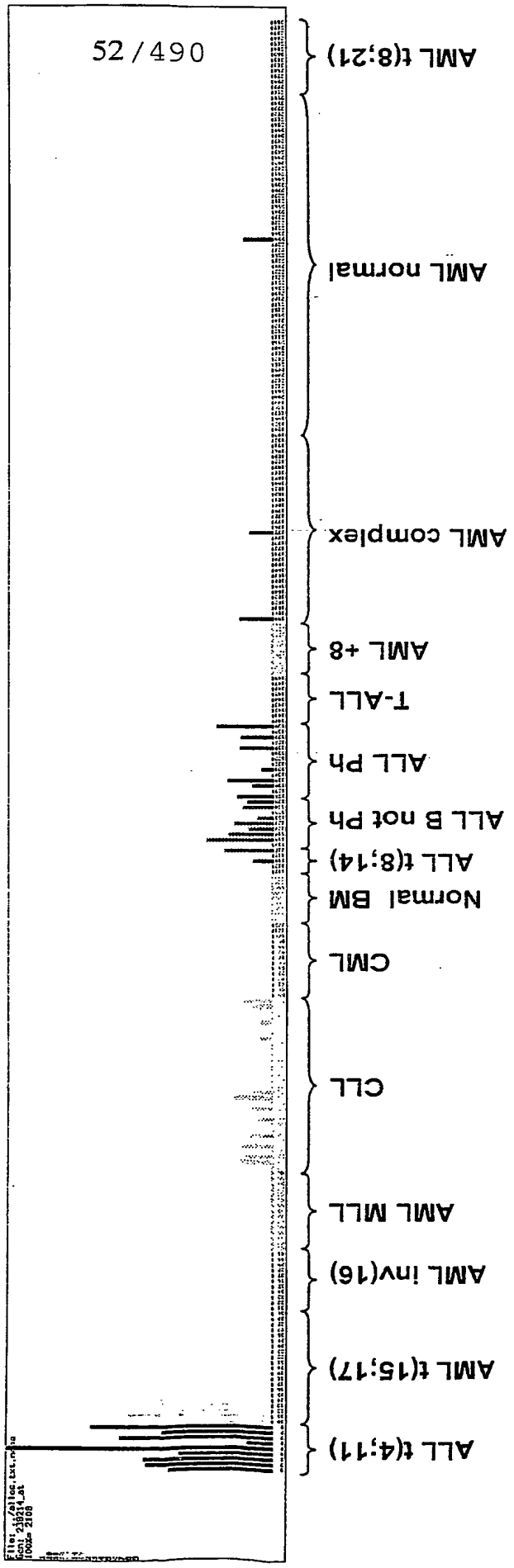


Figure 26

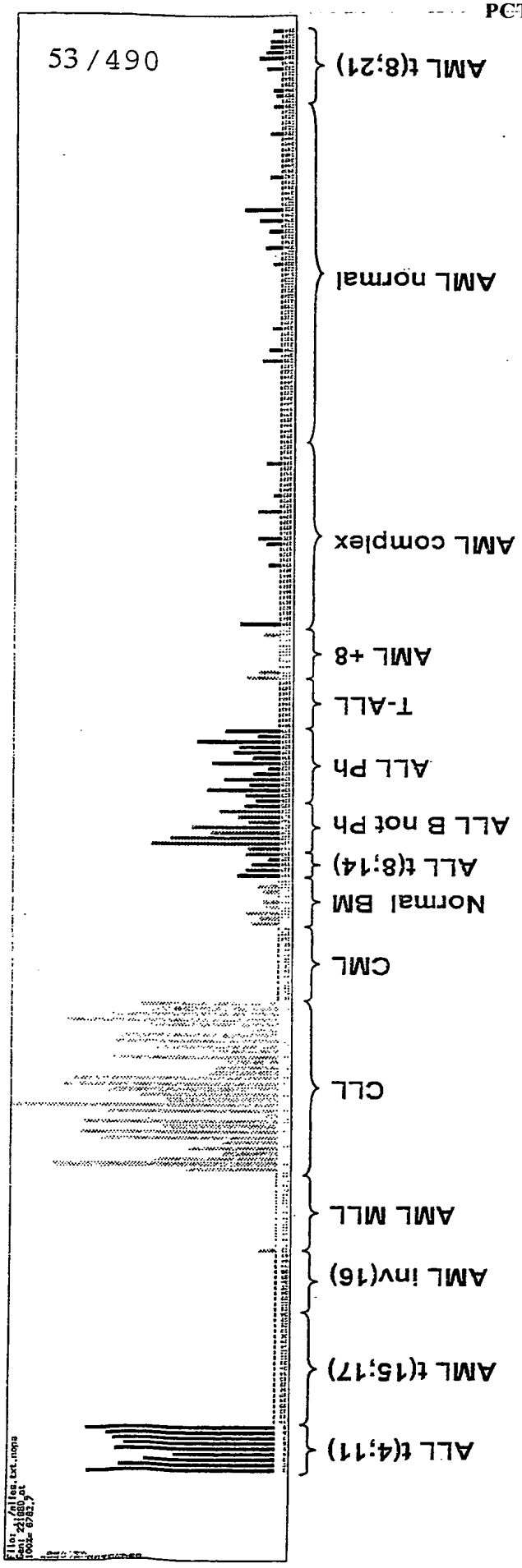

221969_at, PAX5, ALL t(4;11) vs. AML t(15;17)
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 27

225653_at, ALL t(4;11) vs. AML inv(16)

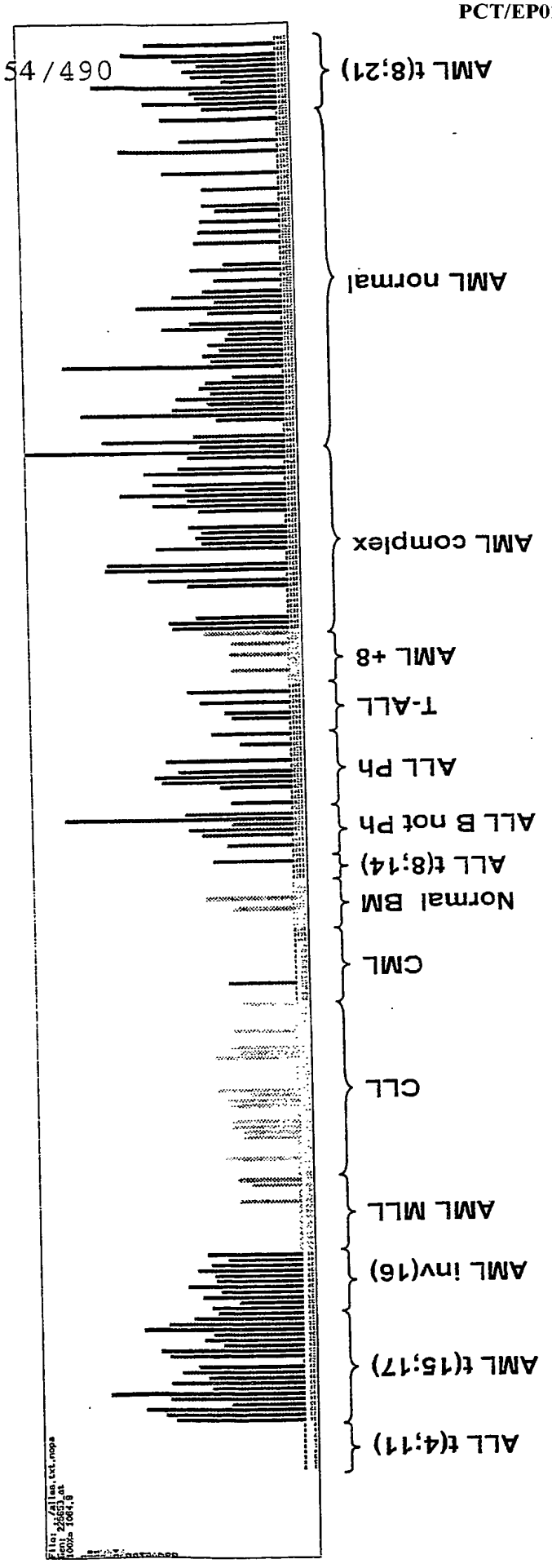


Figure 28

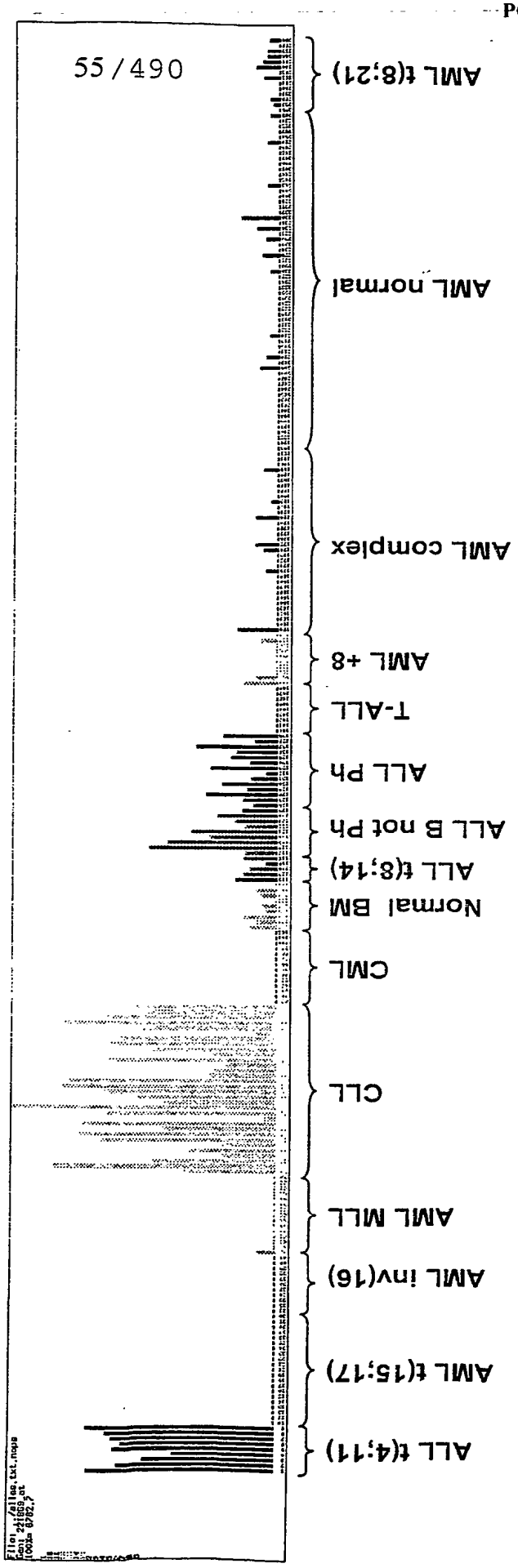

221969_at, ALL t(4;11) vs. AML MLL
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 29

210045_at, IDH2, ALL t(4;11) vs. CLL

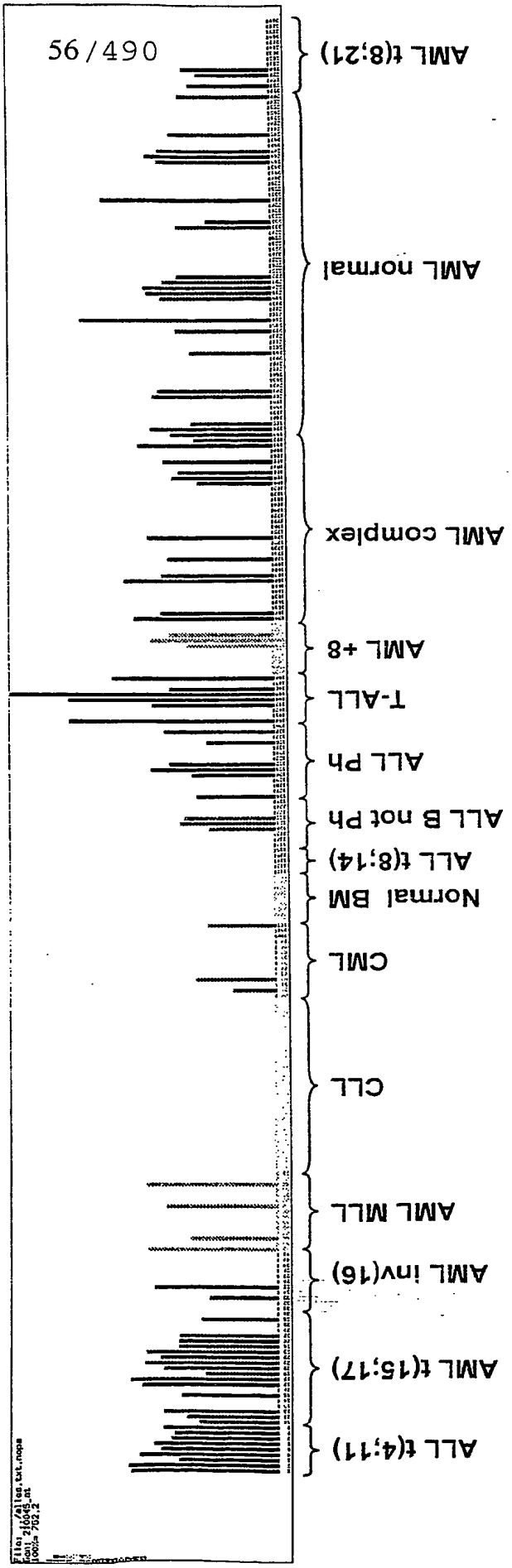


Figure 30

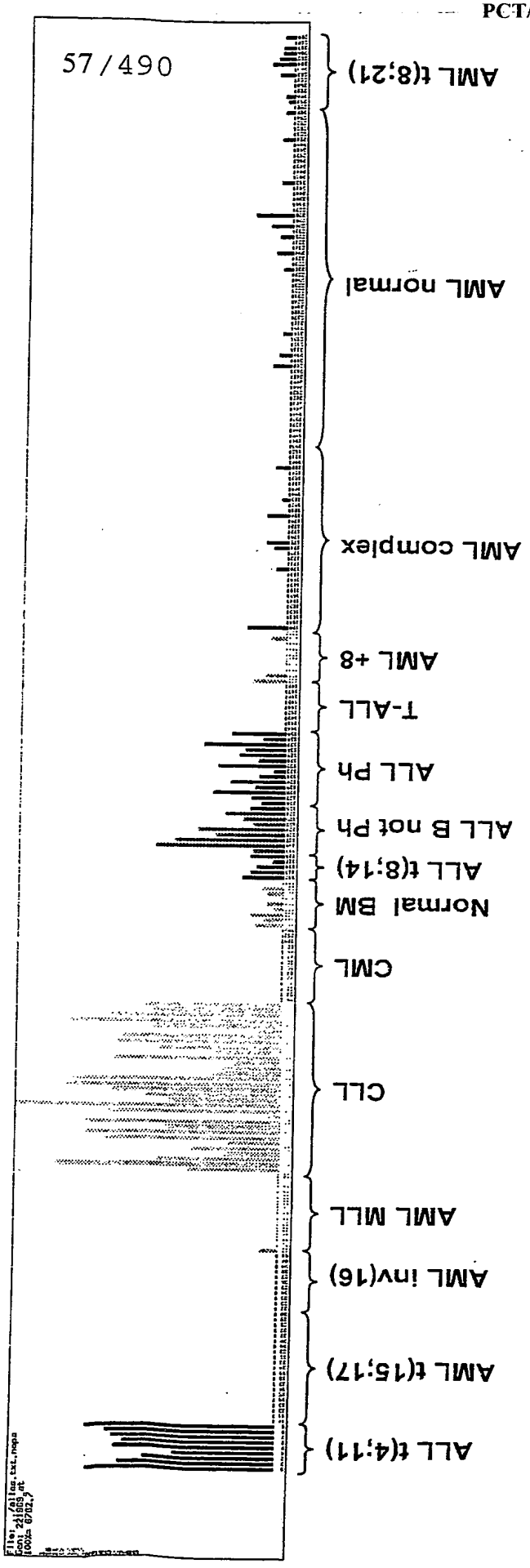

221969_at, PAX5, ALL t(4;11) vs. CML
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 31

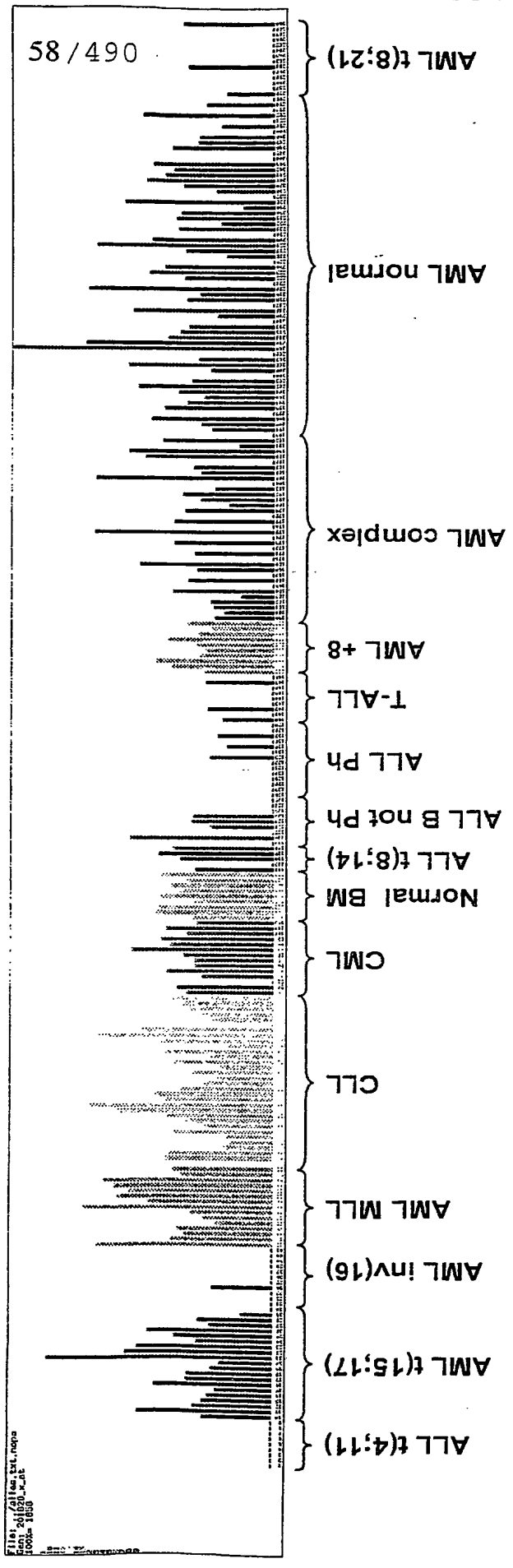

201828_x_at, CXX1, ALL t(4;11) vs. normal BM
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 32

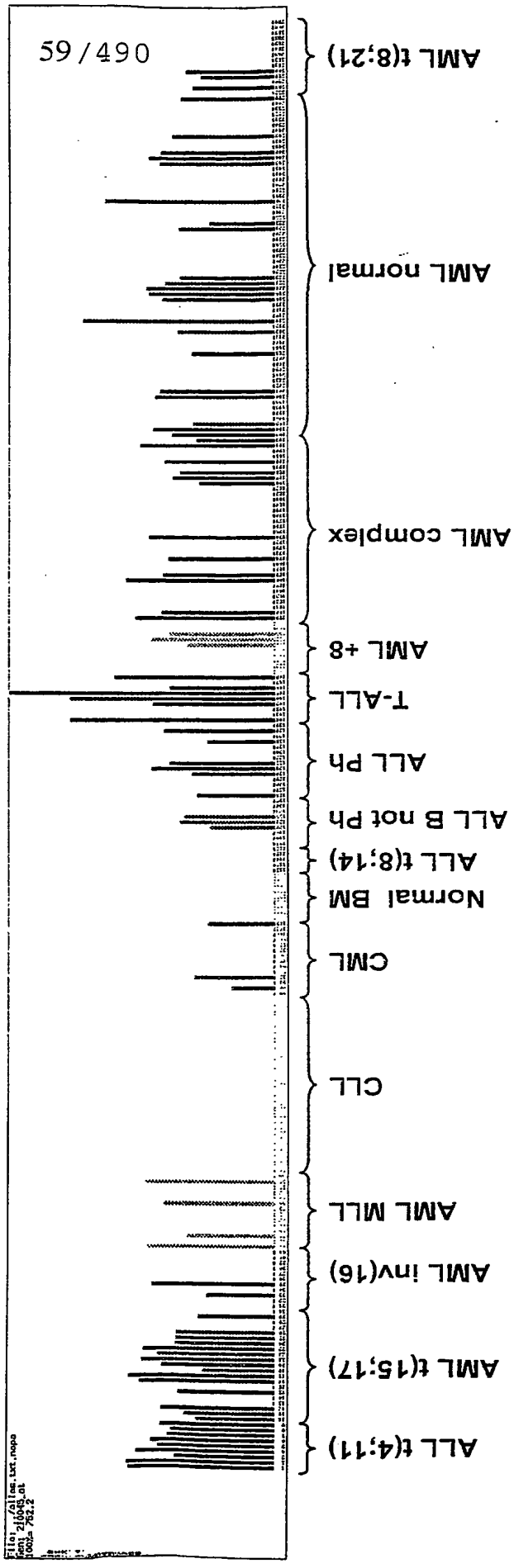

210045_at, IDH2, ALL t(4;11) vs. ALL t(8;14)
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 33

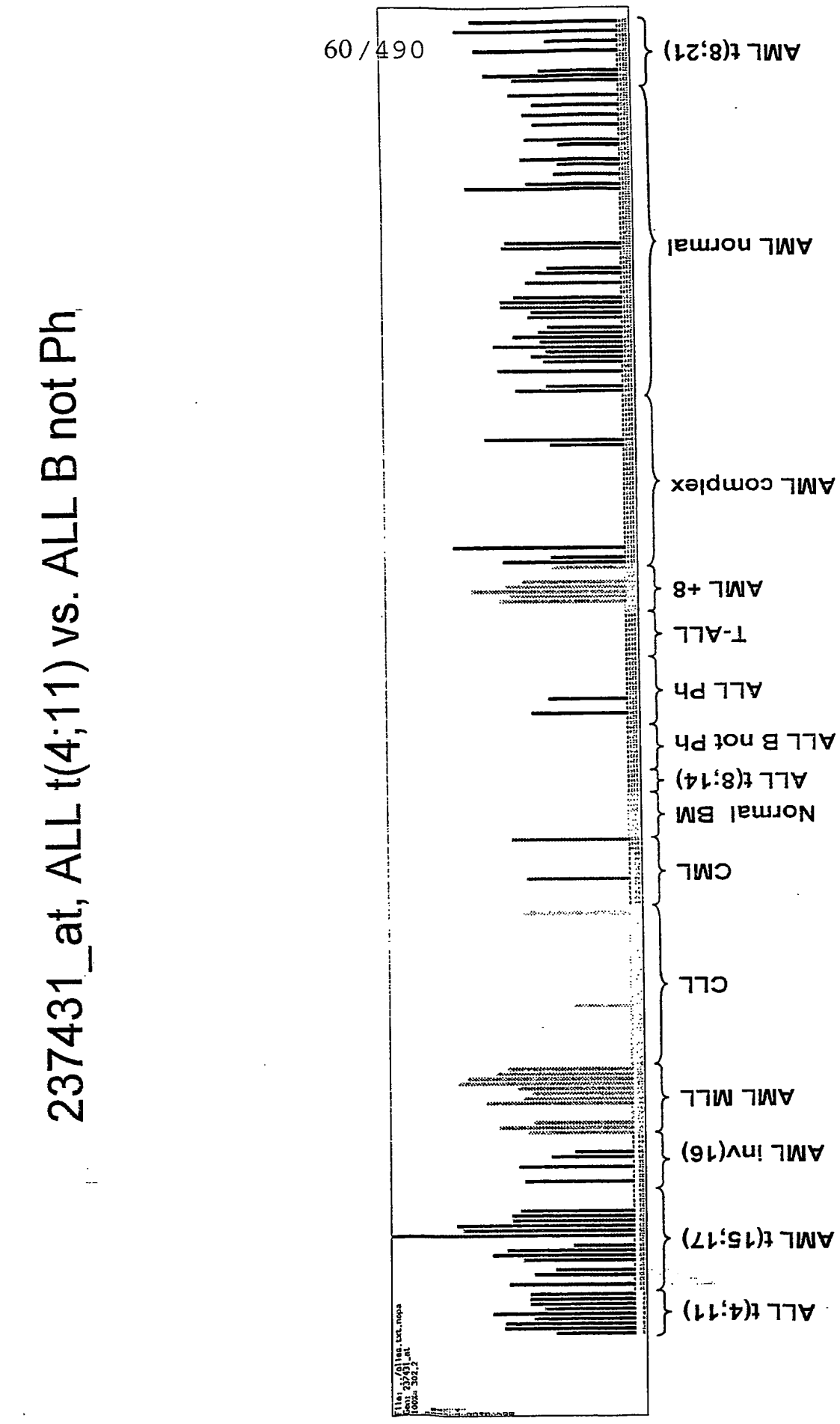

237431_at, ALL t(4;11) vs. ALL B not Ph
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 34

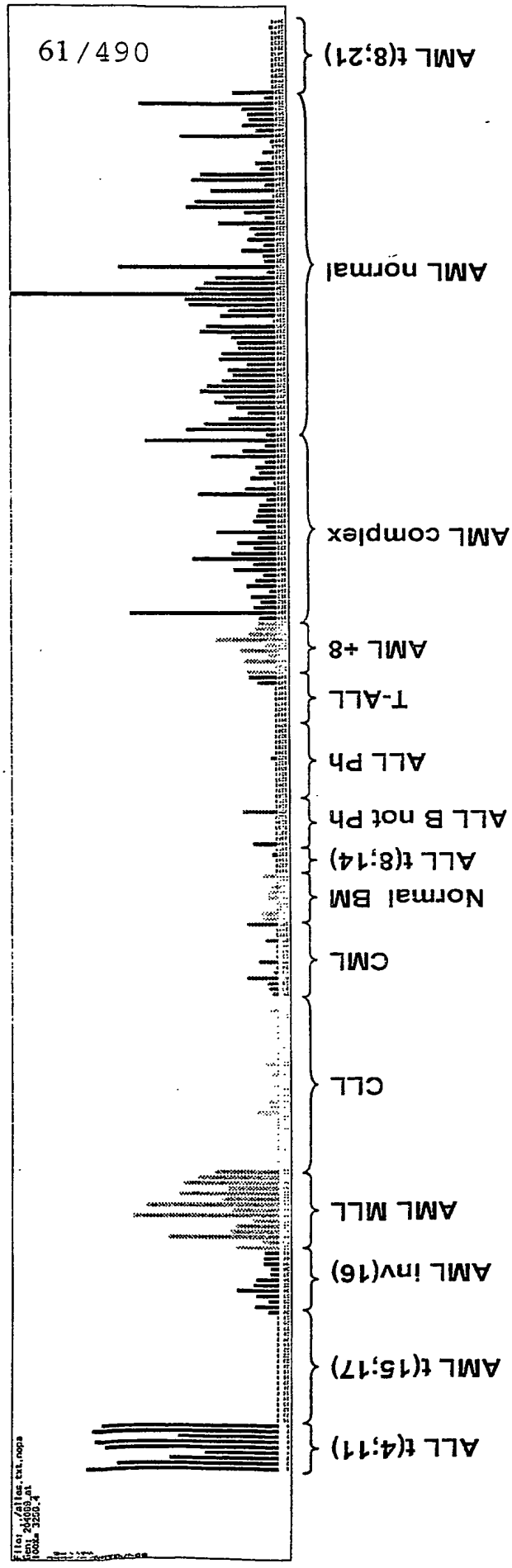

204069_at, MEIS1, ALL t(4;11) vs. ALL Ph
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 35

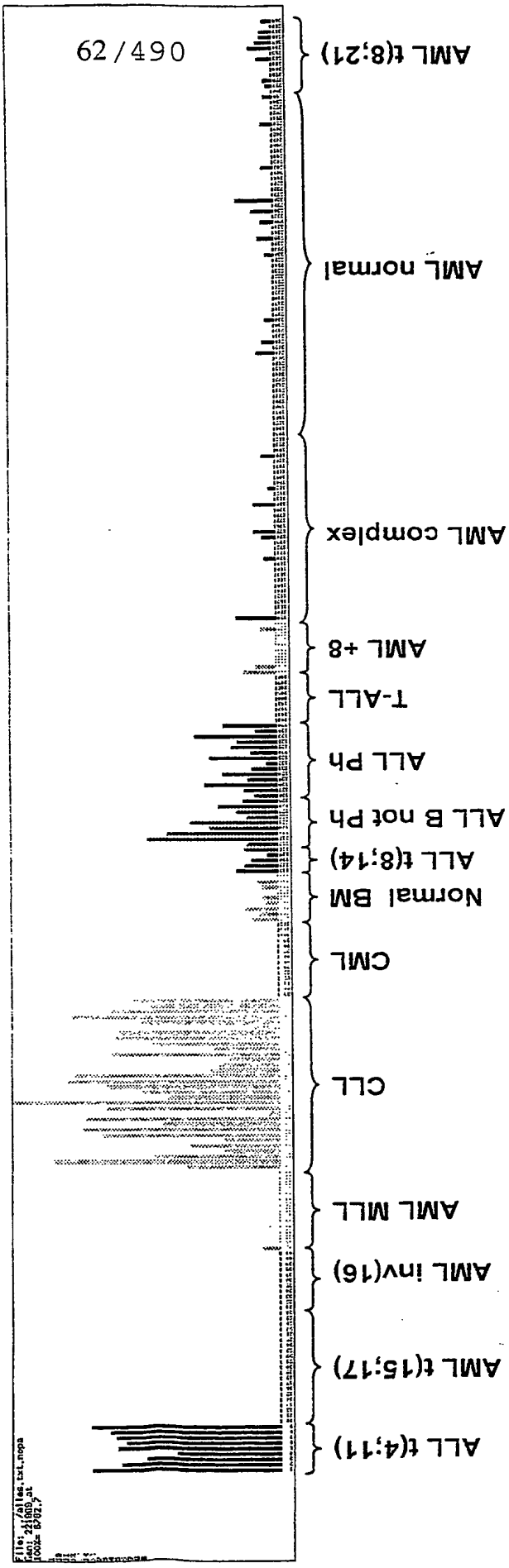

221969_at, PAX5, ALL t(4;11) vs. T-ALL
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 36

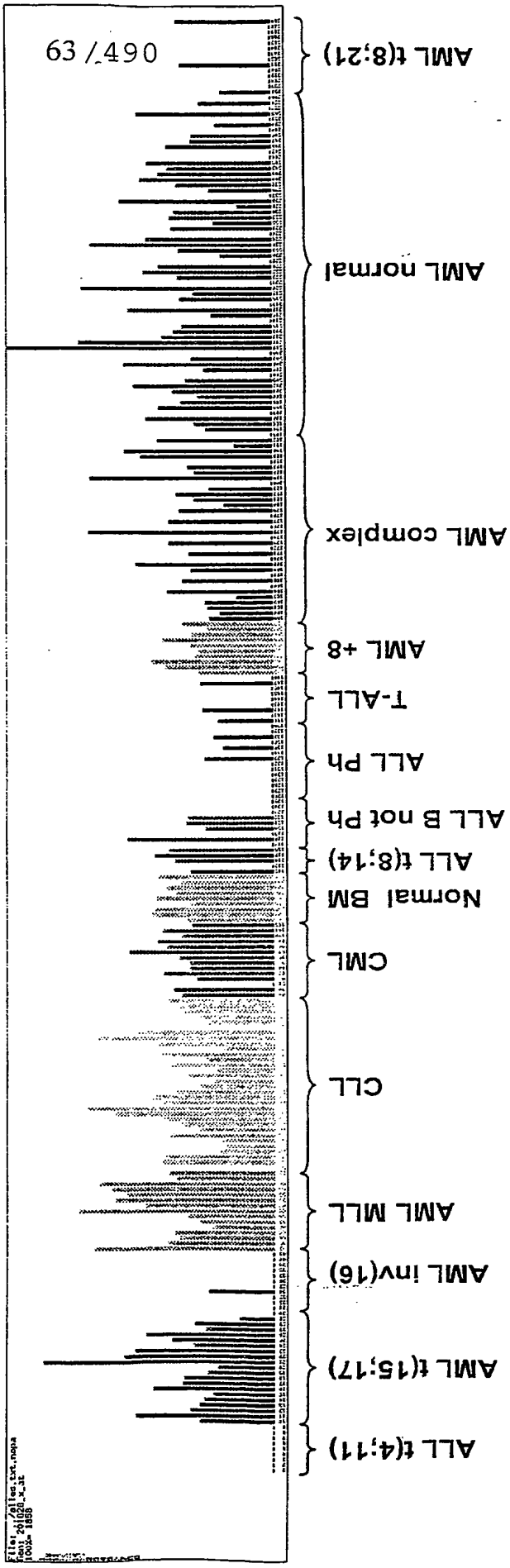

201828_x_at, CXX1, ALL t(4;11) vs. AML +8
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 37

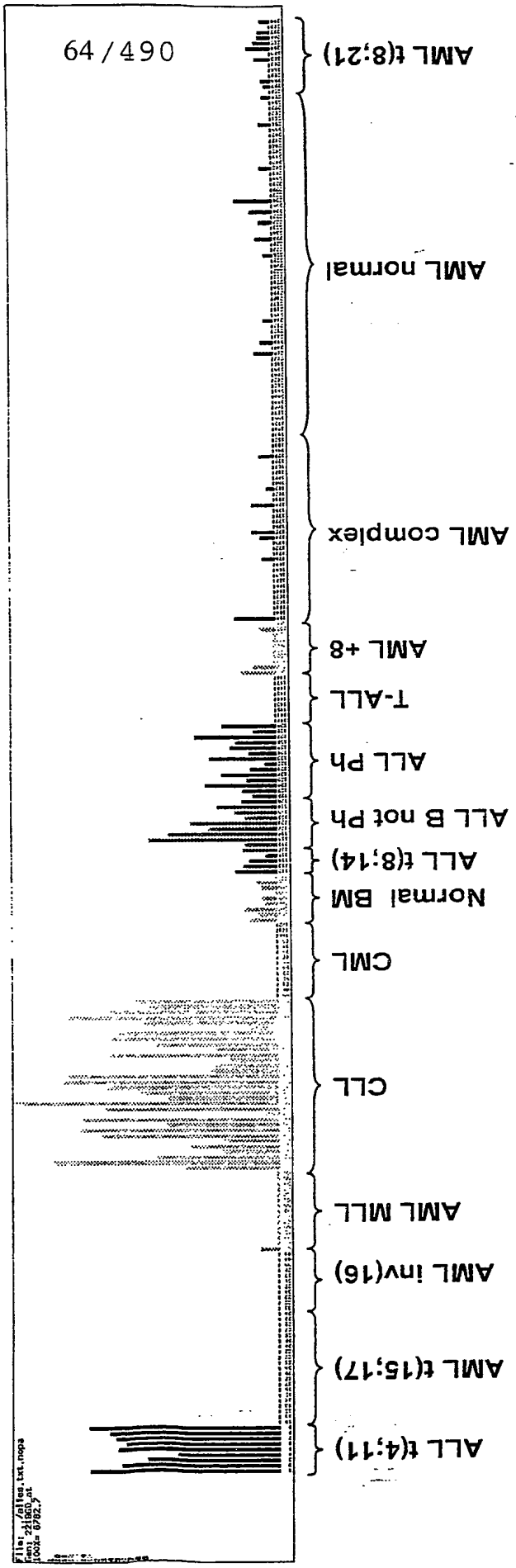
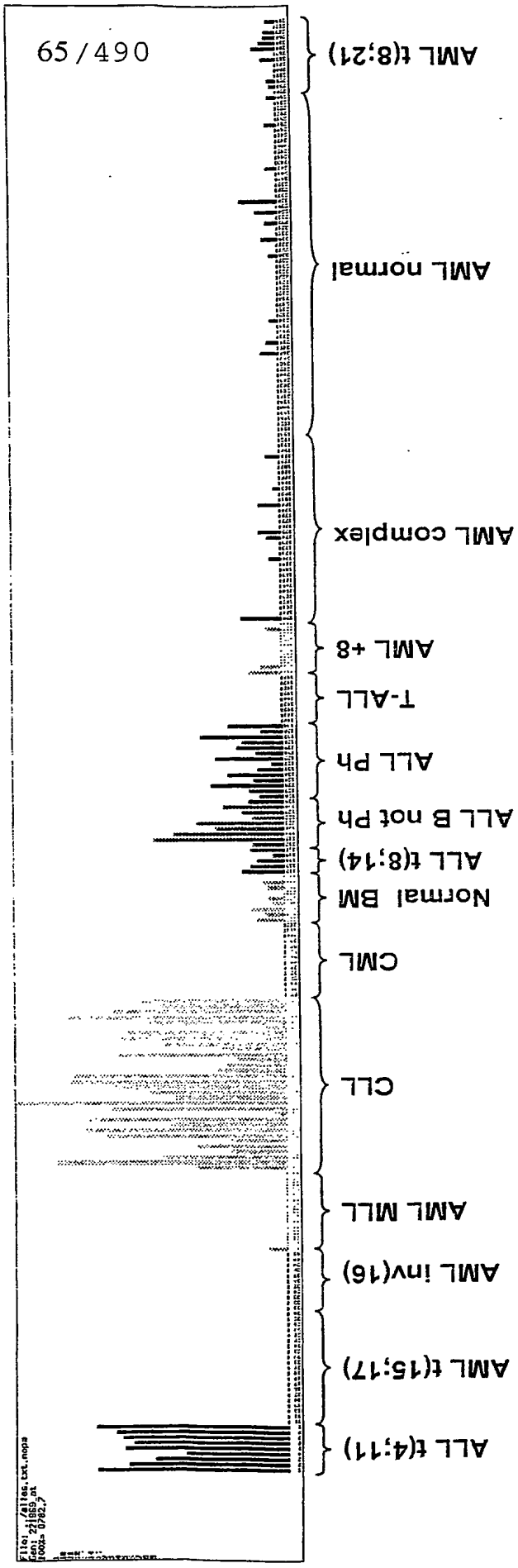

221969_at, PAX5, ALL t(4;11) vs. AML complex
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 38



221969_at, PAX5, ALL t(4;11) vs. AML normal

Figure 39

212484_at, MTVR, ALL t(4;11) vs. AML t(8;21)

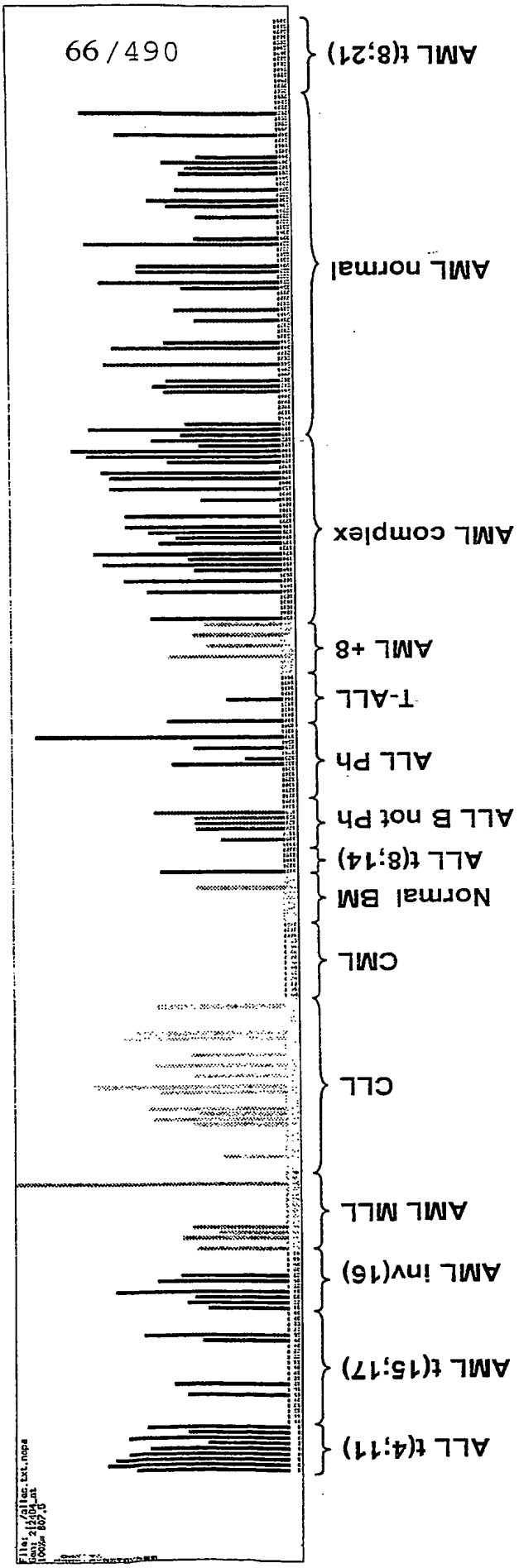


Figure 40

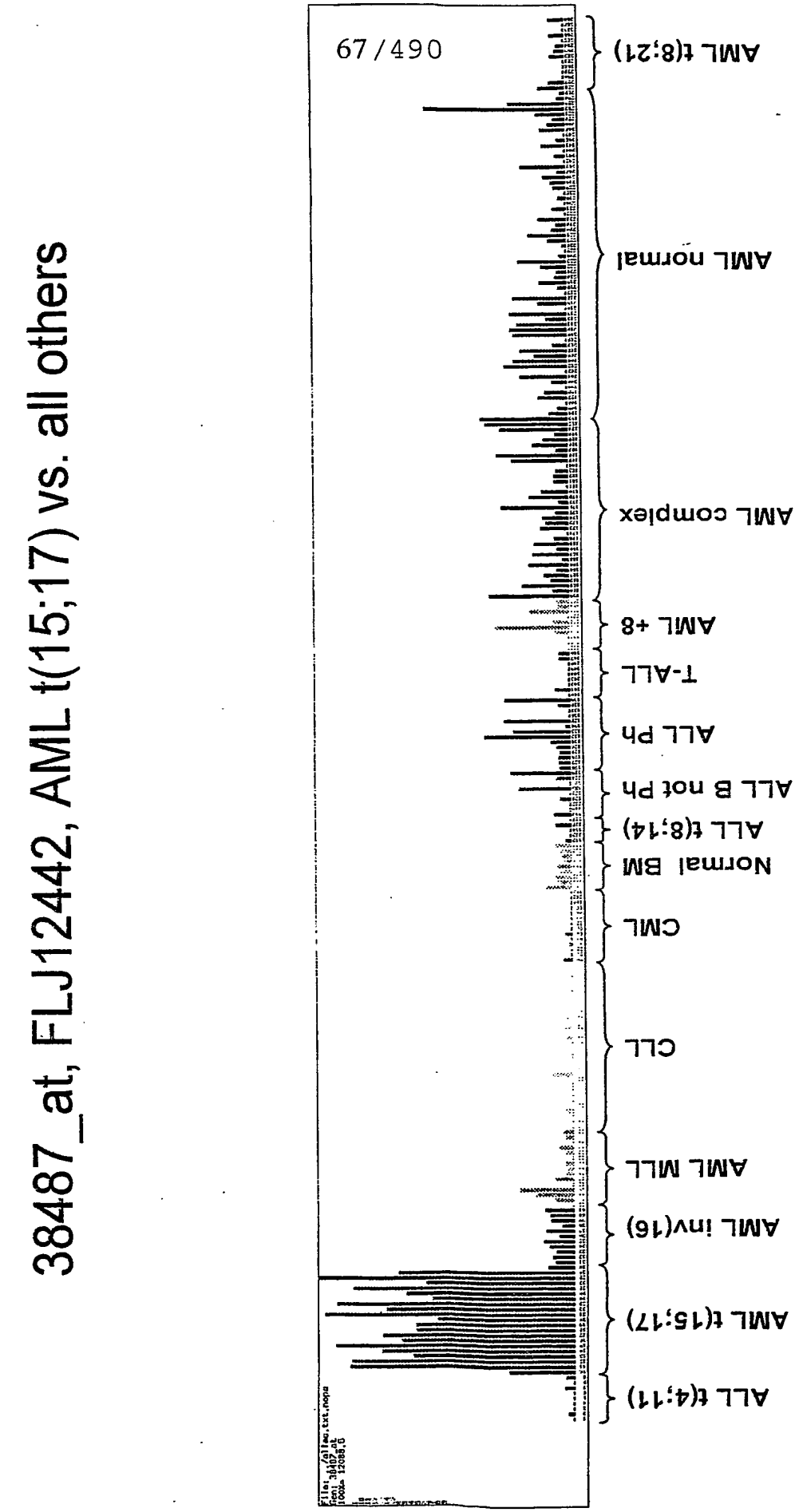

38487_at, FLJ12442, AML t(15;17) vs. all others
67/490
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 41

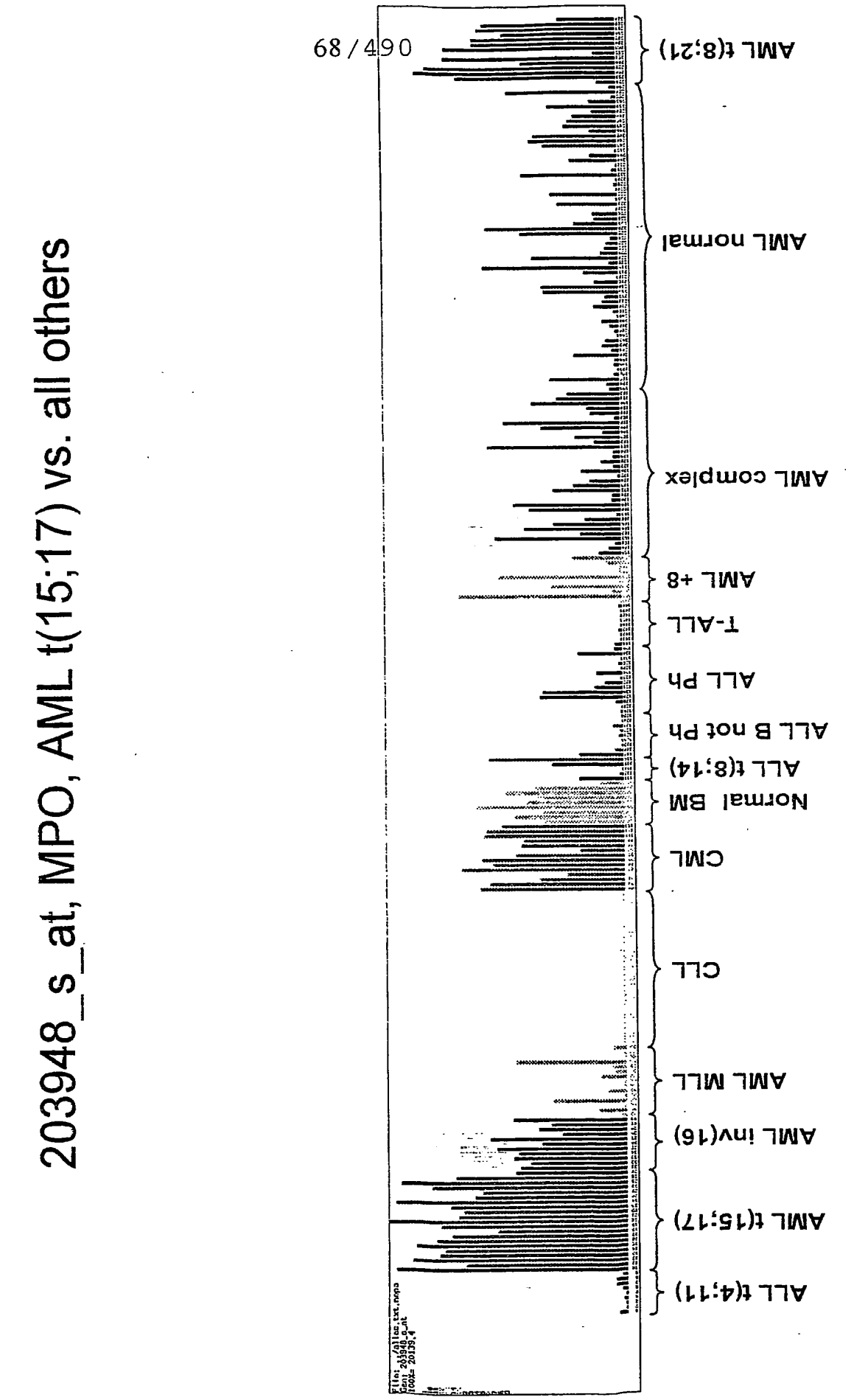

203948_s_at, MPO, AML t(15;17) vs. all others
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 42

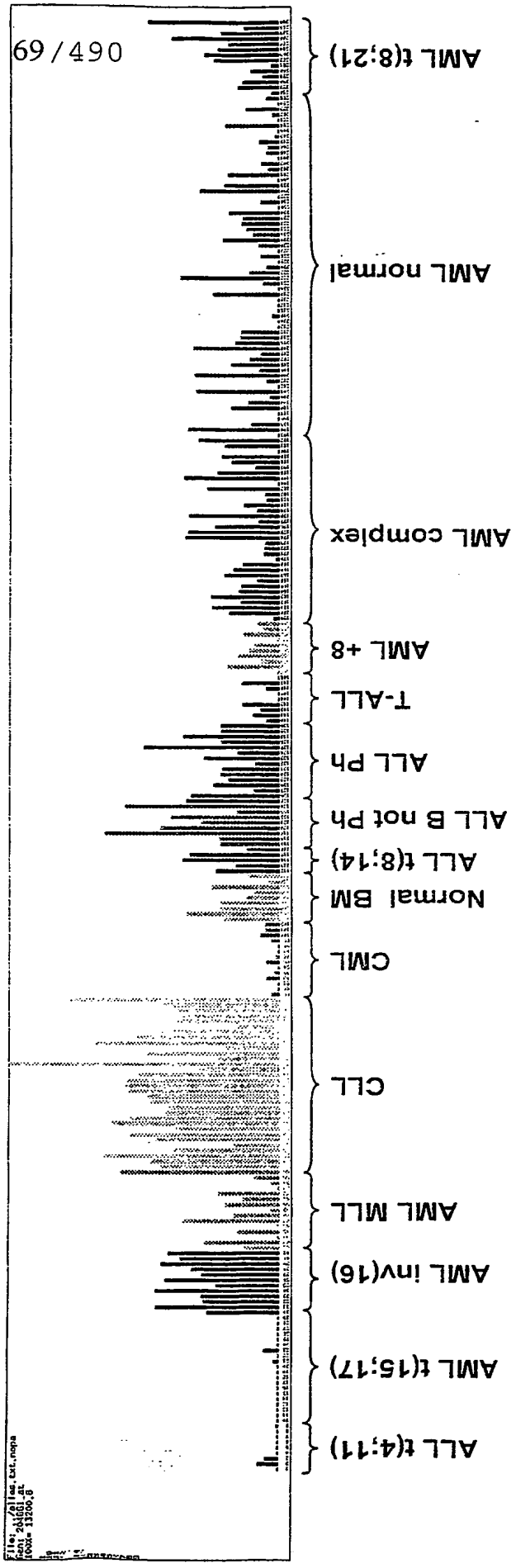

204661_at, CDW52, AML t(15;17) vs. AML inv(16)
69/490
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 43

205624_at, CPA3, AML t(15;17) vs. AML MLL

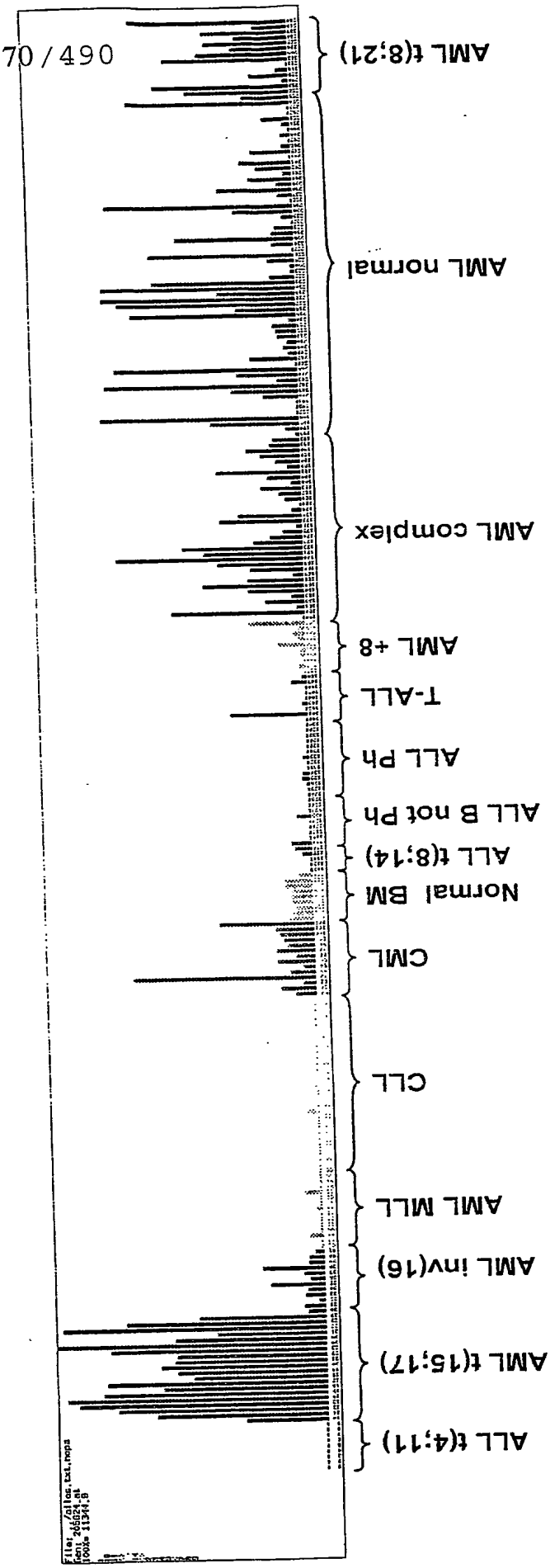


Figure 44

203949_at, MPO, AML t(15;17) vs. CLL

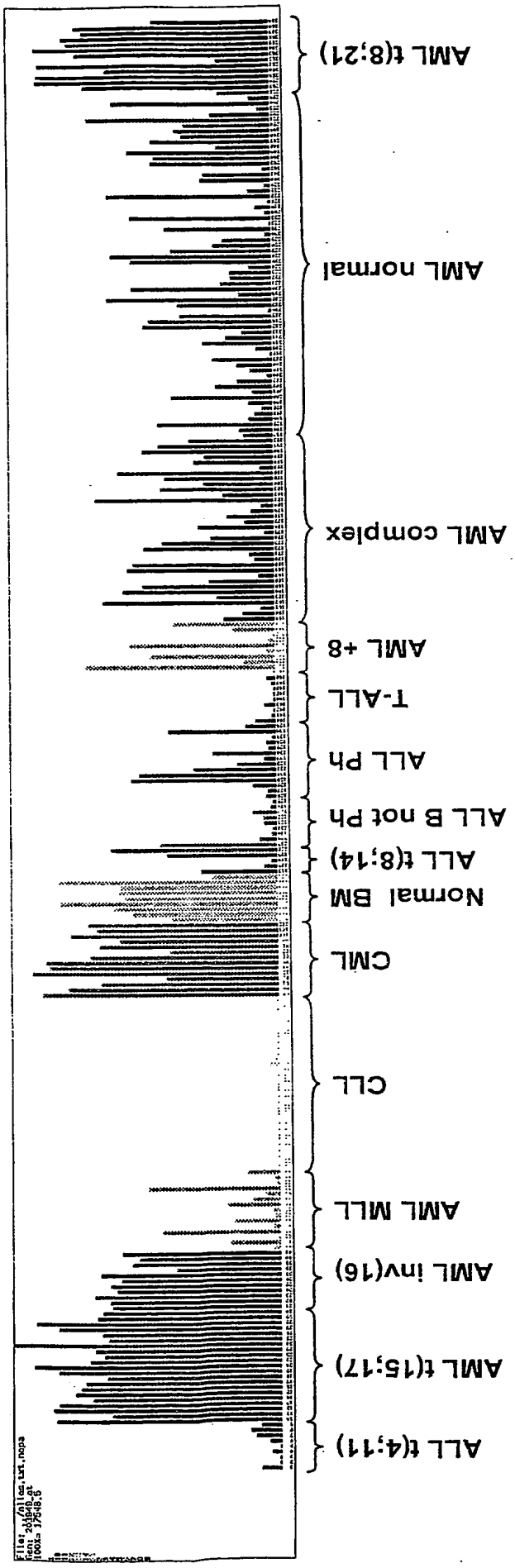


Figure 45

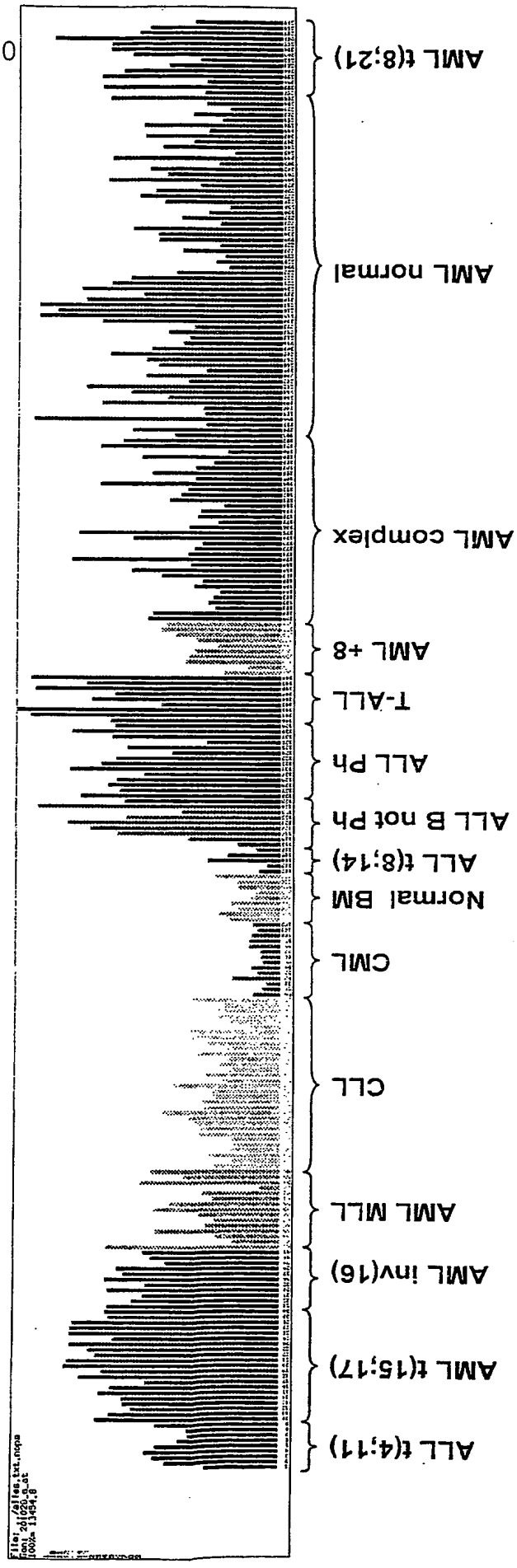

201029_s_at, MIC2, AML t(15;17) vs. CML
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 46

225792_at, AML t(15;17) vs. normal BM

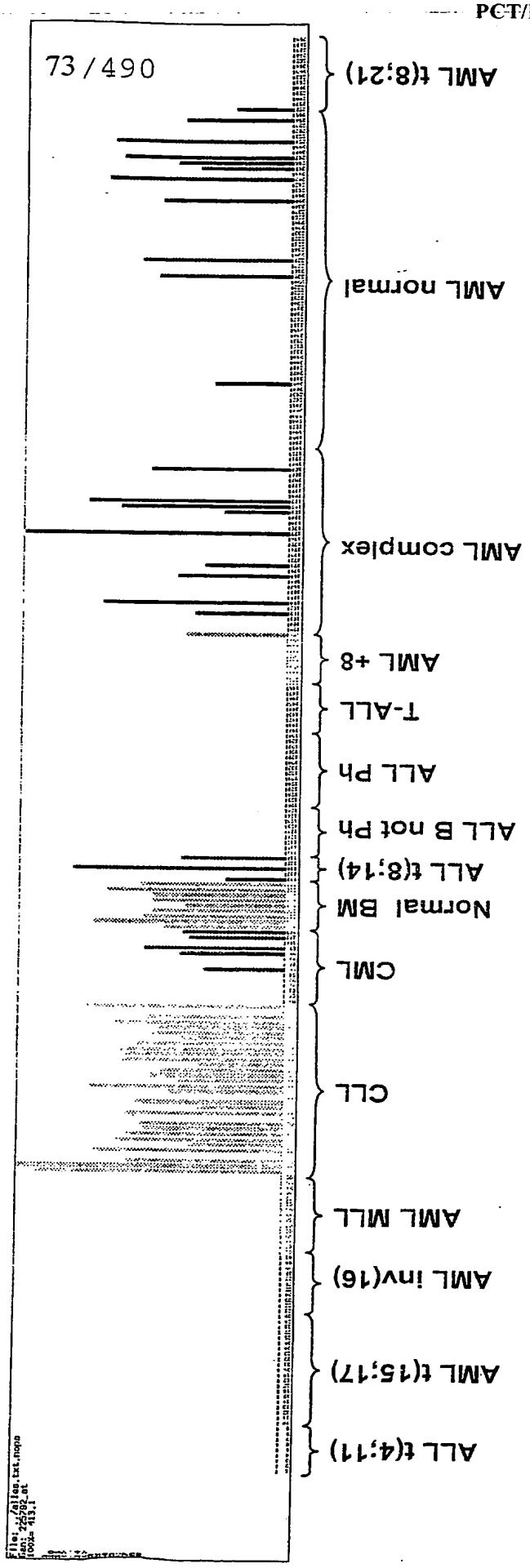


Figure 47

212400_at, AML t(15;17) vs. ALL t(8;14)

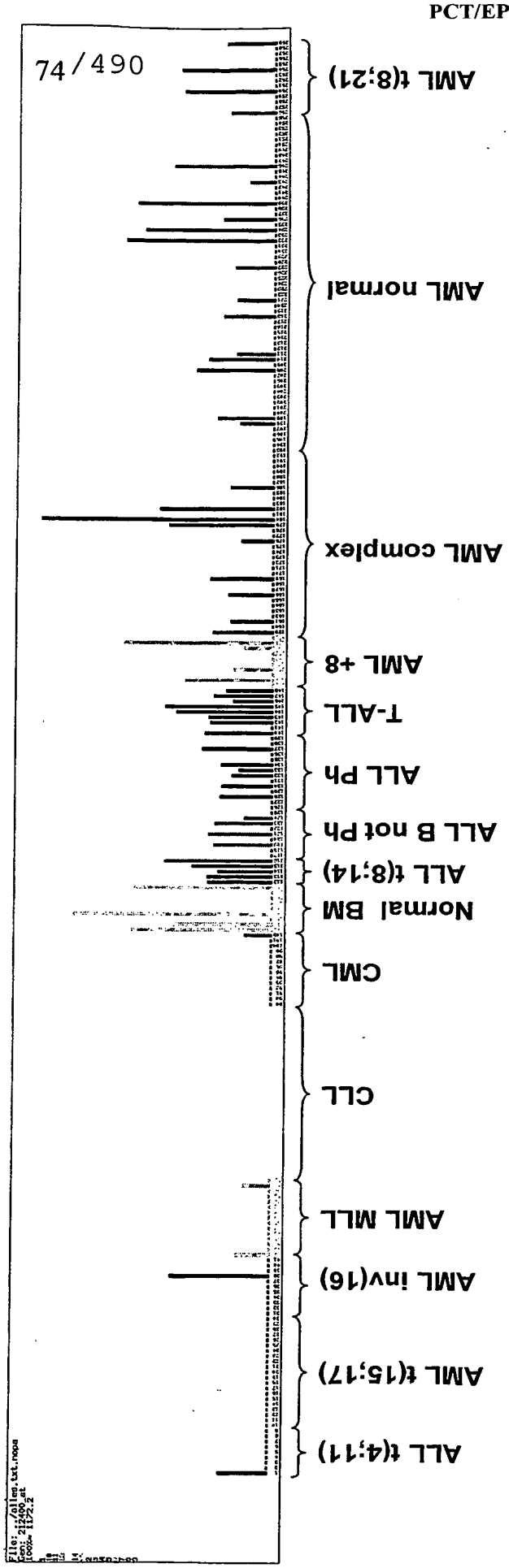


Figure 48

205382_s_at, DF, AML t(15;17) vs. ALL B not Ph

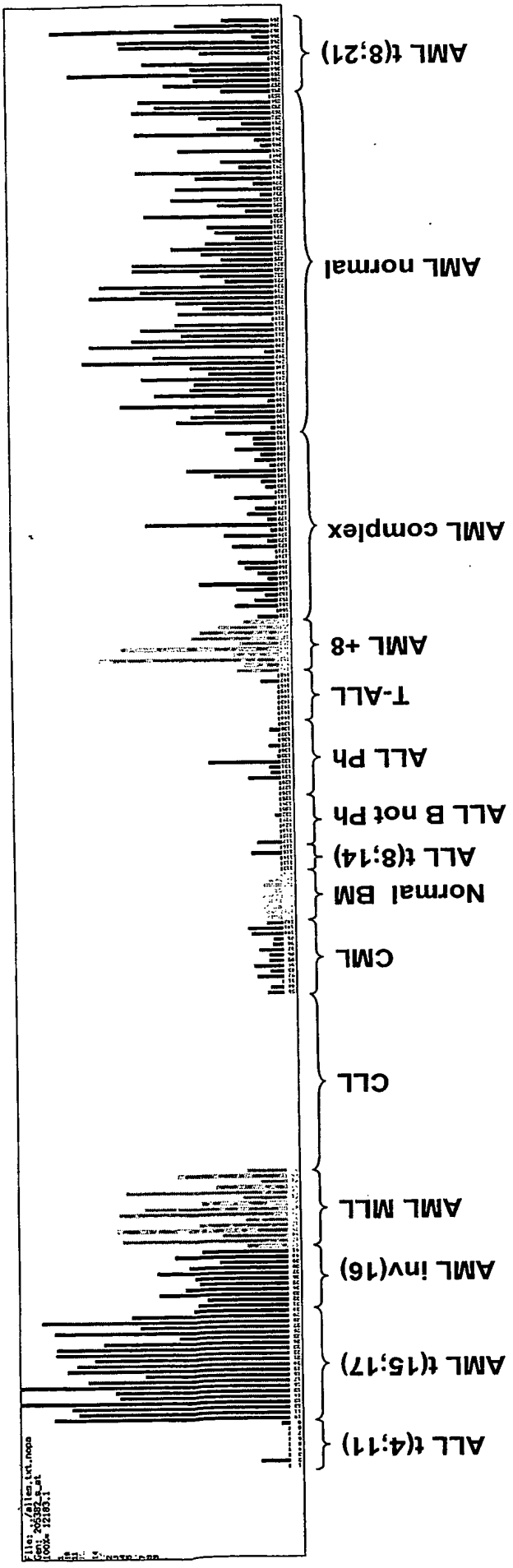


Figure 49

220798_x_at, FLJ11535, AML t(15;17) vs. ALL Ph

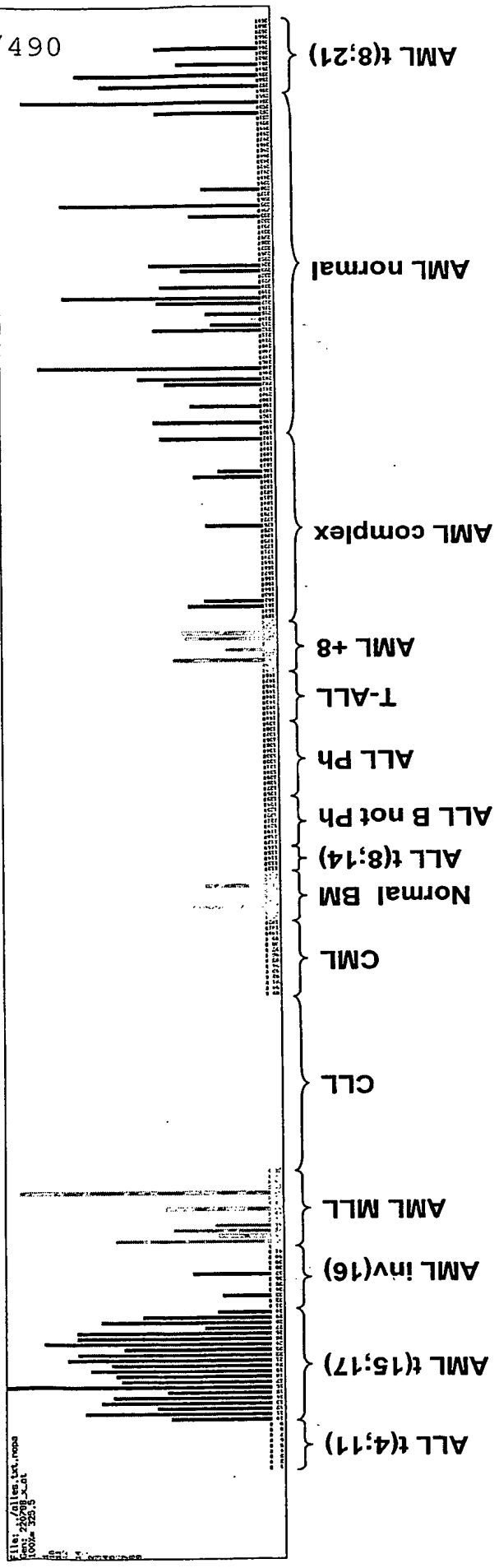


Figure 50

203949_at, MPO, AML t(15;17) vs. T-ALL

Figure 51

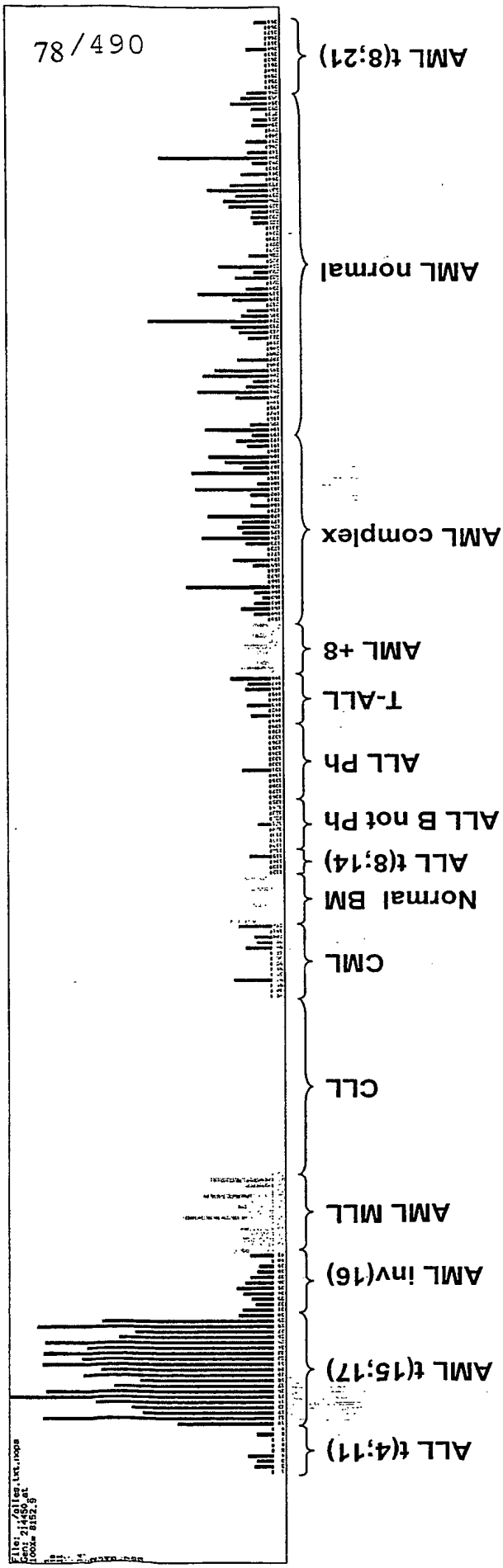

214450_at, CTSW, AML t(15;17) vs. AML +8
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 52

212953_x_at, CALR, AML t(15;17) vs. AML complex

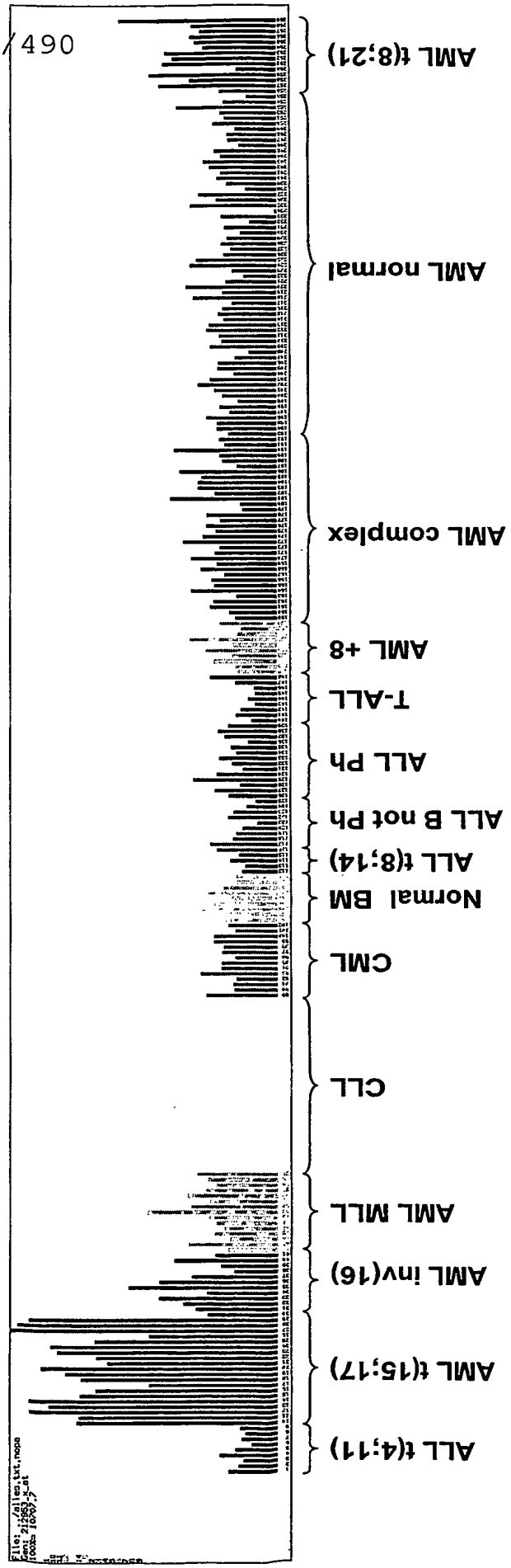


Figure 53

212953_x_at, CALR, AML t(15;17) vs. AML normal

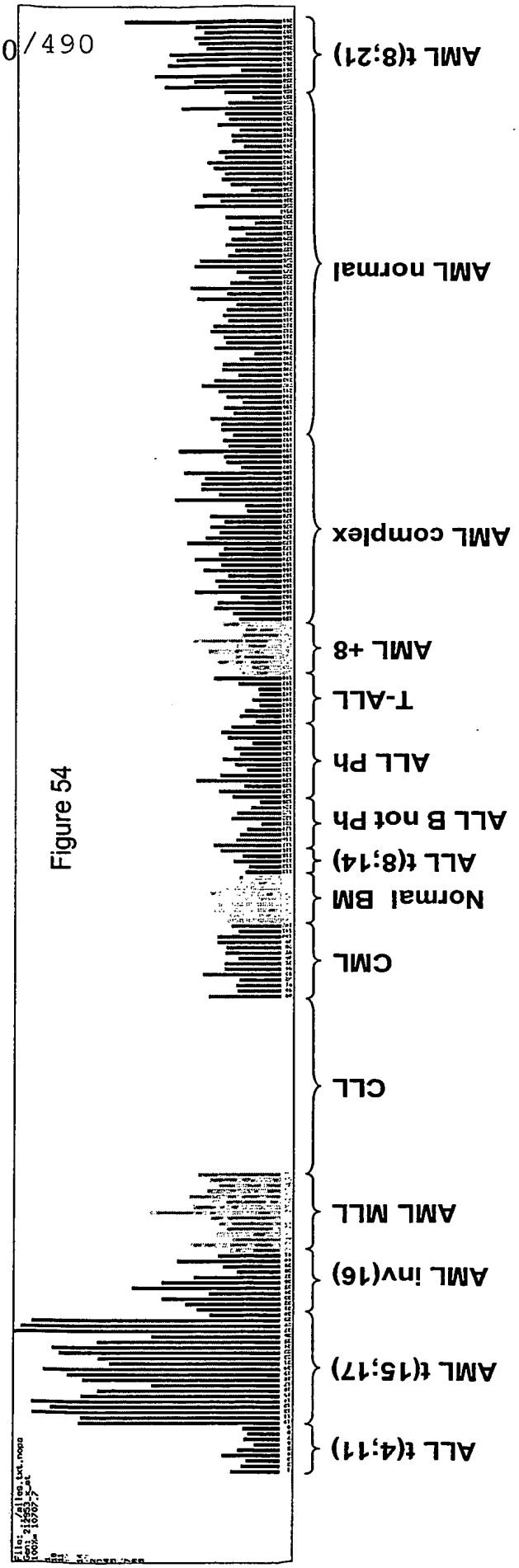


Figure 54

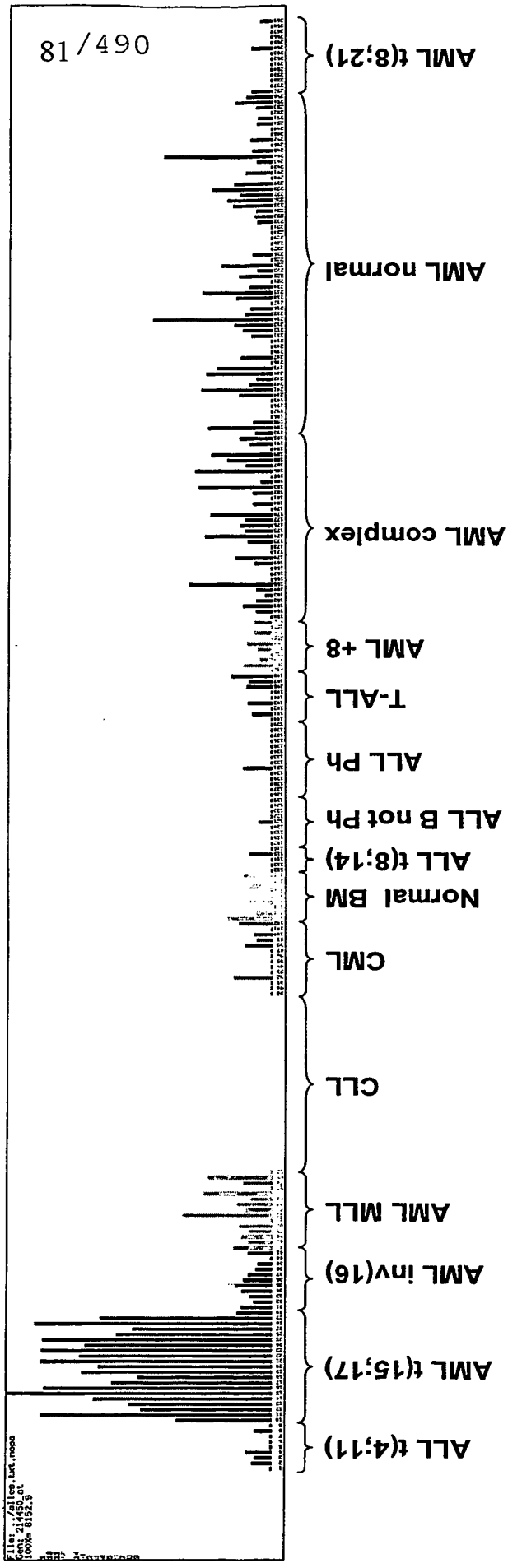

214450_at, CTSW, AML t(15;17) vs. AML t(8;21)
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 55

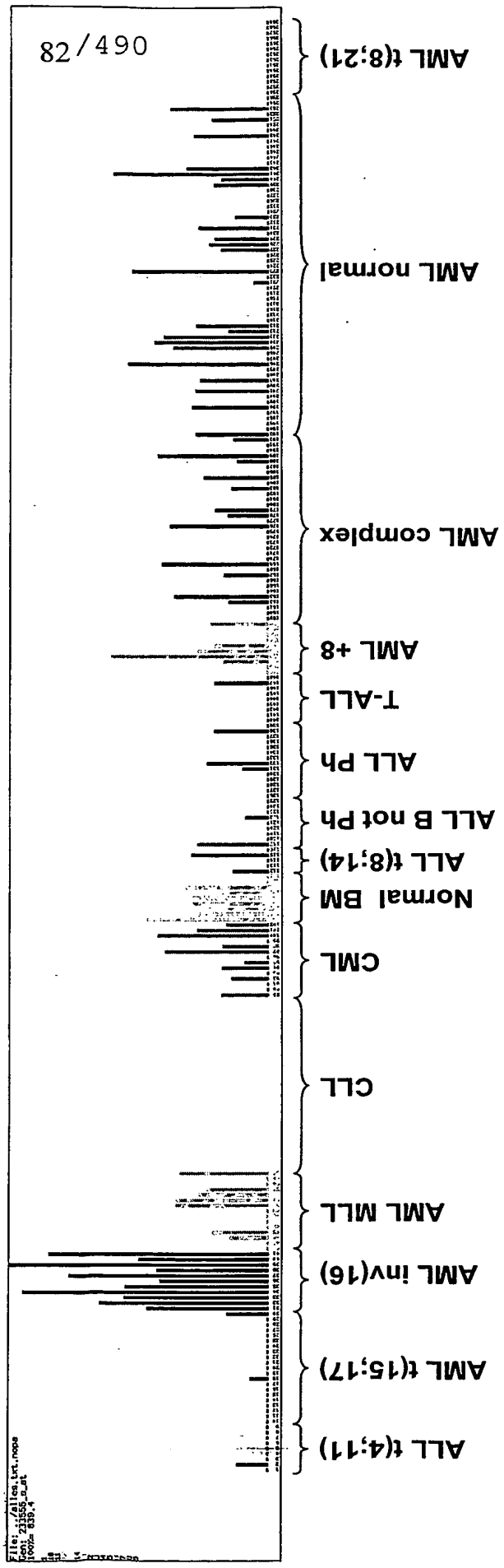

233555_s_at, AML inv(16) vs. all others
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 56

202016_at, MEST, AML inv(16) vs. all others

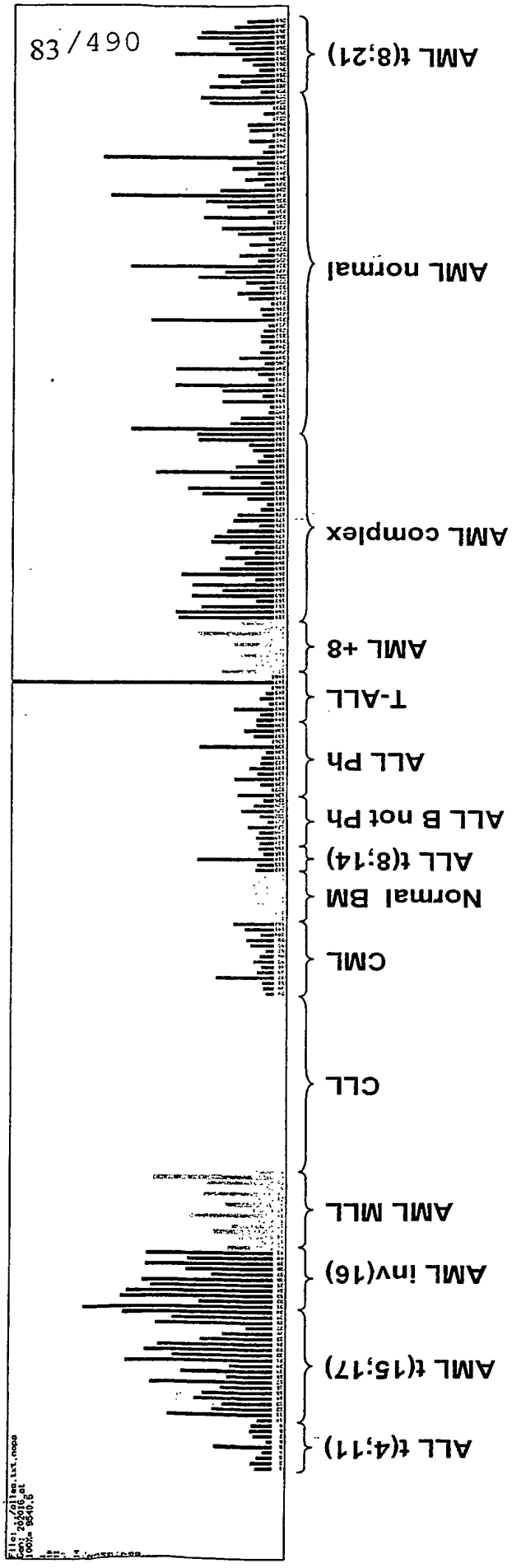


Figure 57

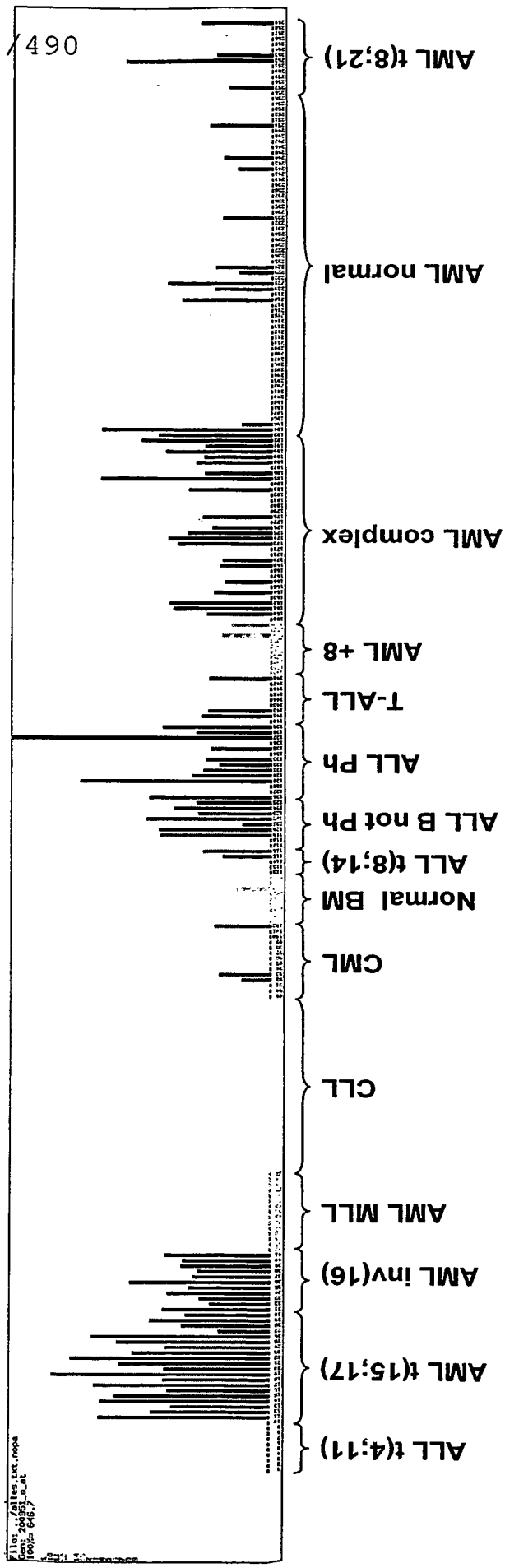

200951_s_at, CCND2, AML inv(16) vs. AML MLL
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 58

203949_at, MPO; AML inv(16) vs. CLL

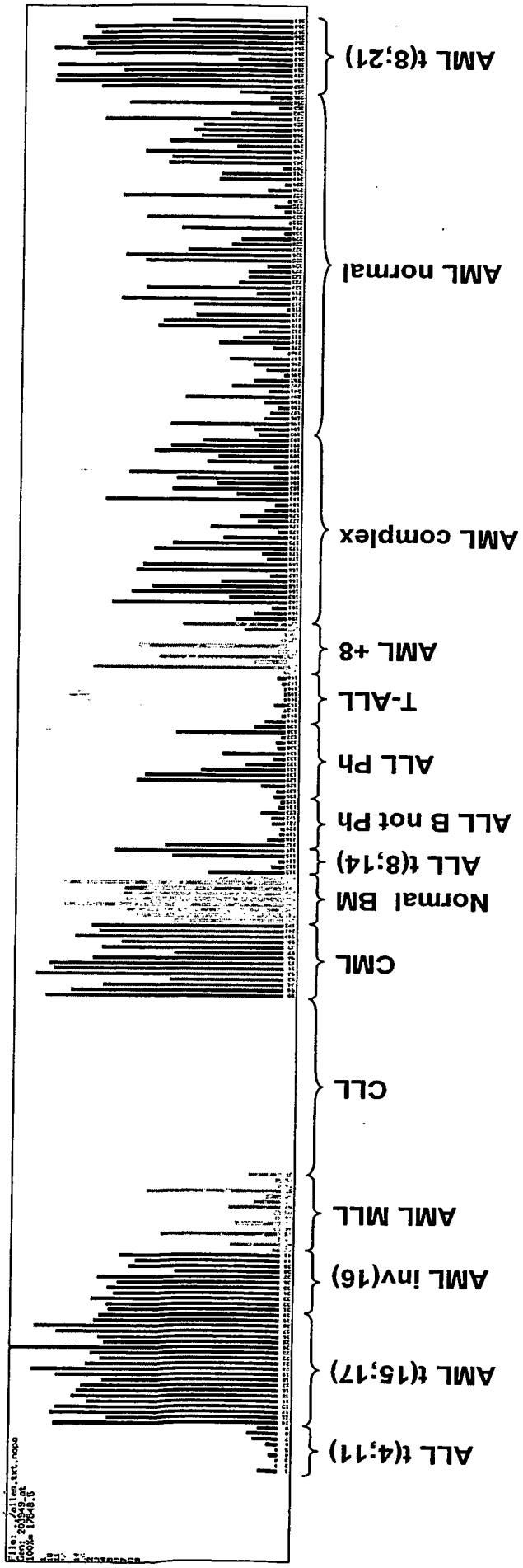


Figure 59

201029_s_at, MIC2, AML inv(16) vs. CML

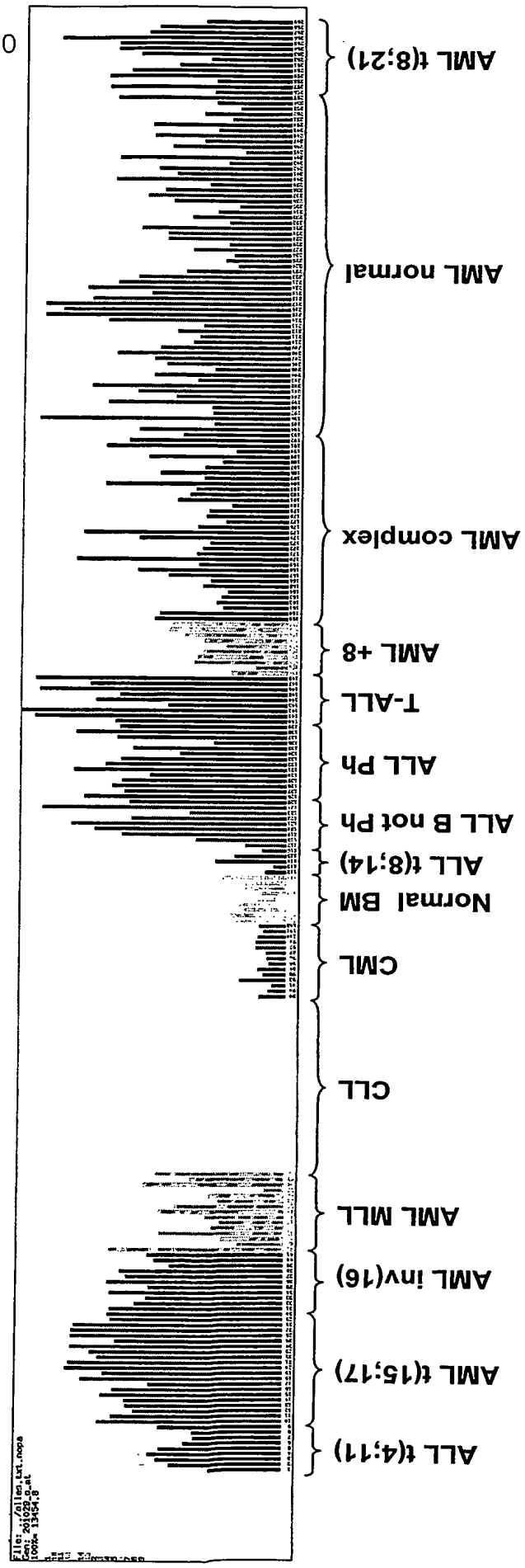
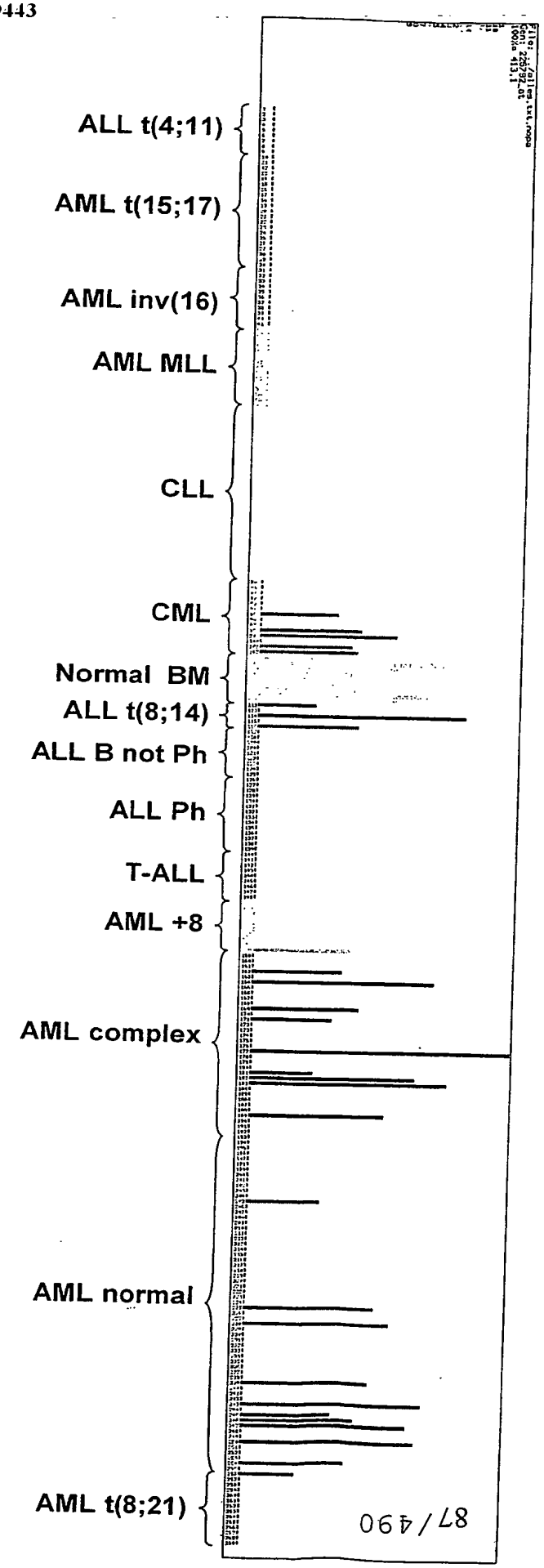


Figure 60



225792_at, AML inv(16) vs. normales KM

Figure 61

214558_at, GPR12, AML inv(16) vs. ALL t(8;14)

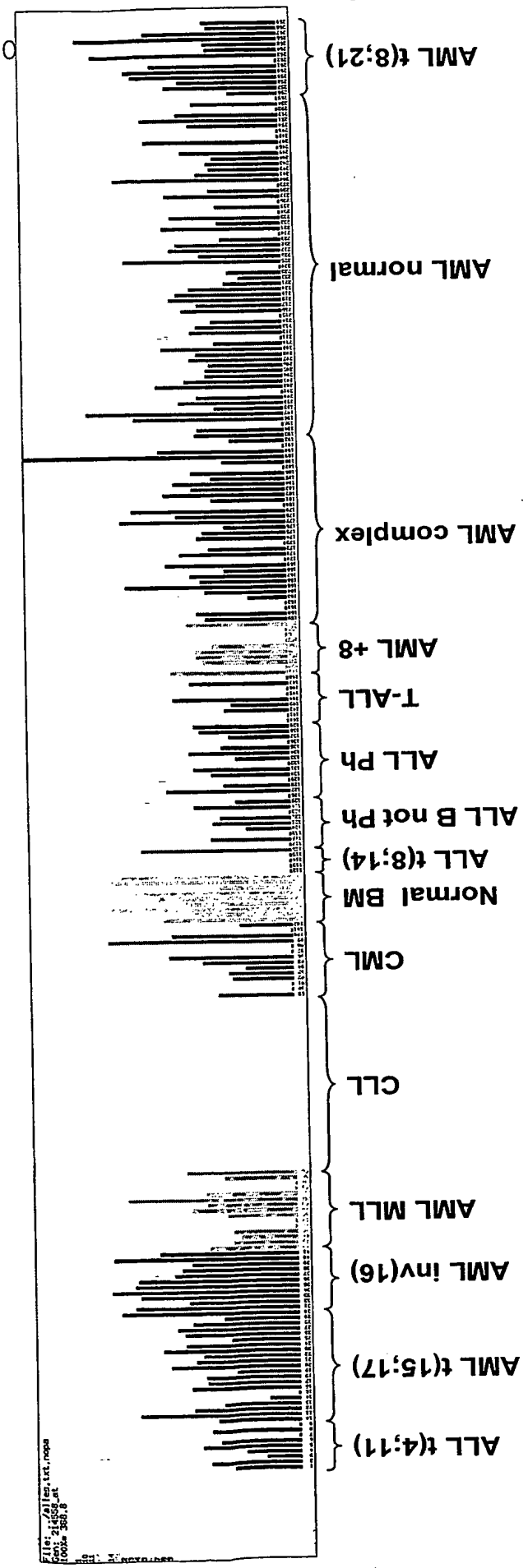


Figure 62

205382_s_at, DF, AML inv(16) vs. ALL B not Ph

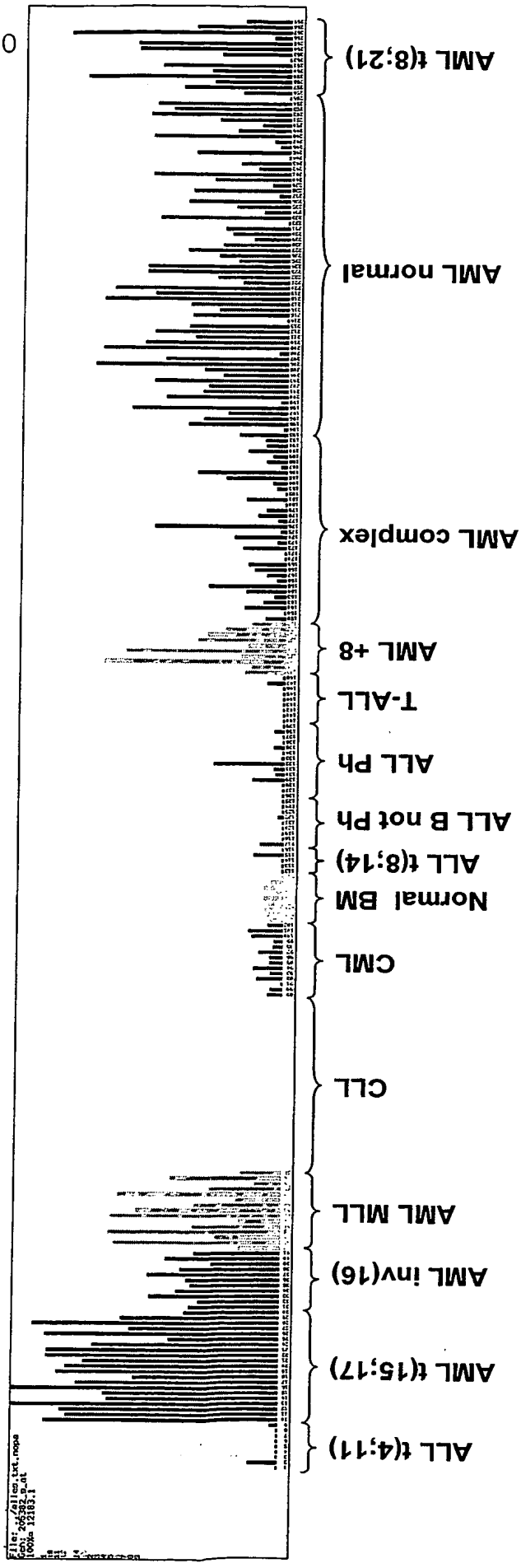


Figure 63

231310_at, AML inv(16) vs. ALL Ph

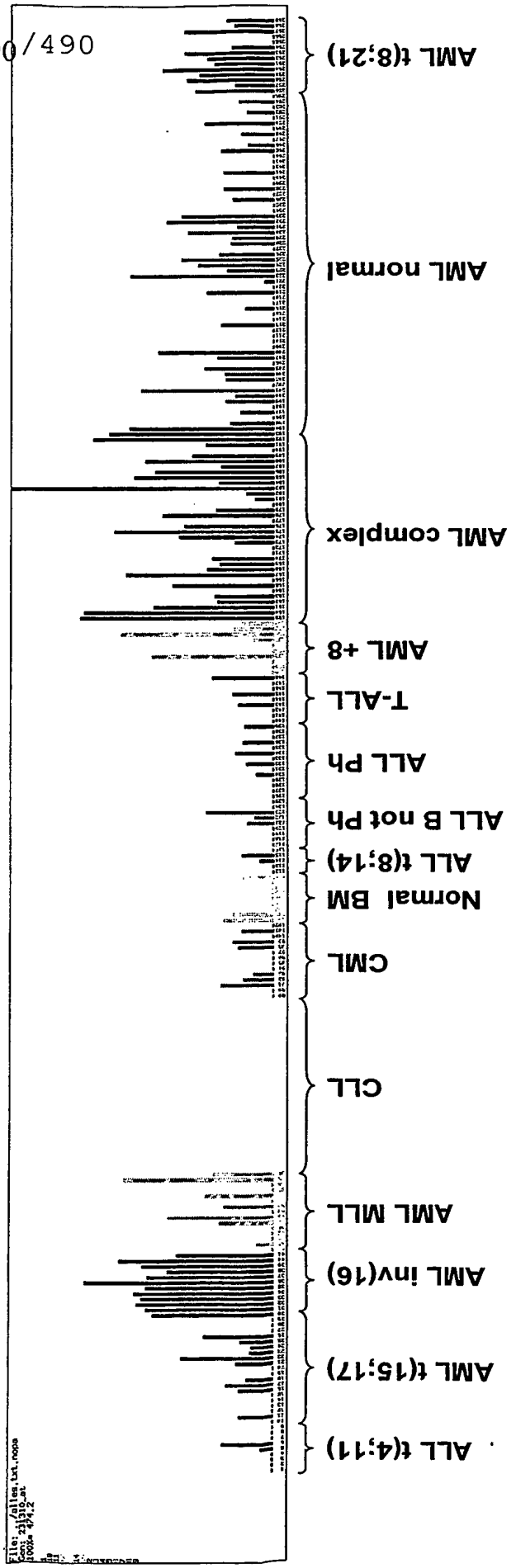


Figure 64

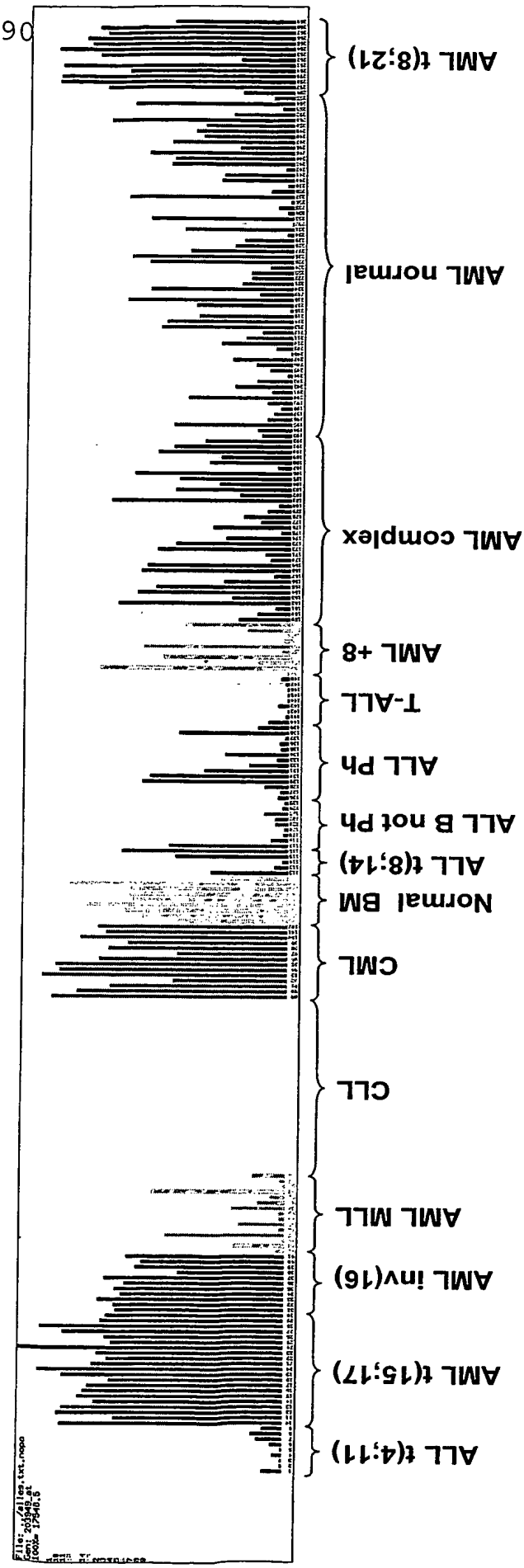

203949_at, MPO, AML inv(16) vs. T-ALL
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 65

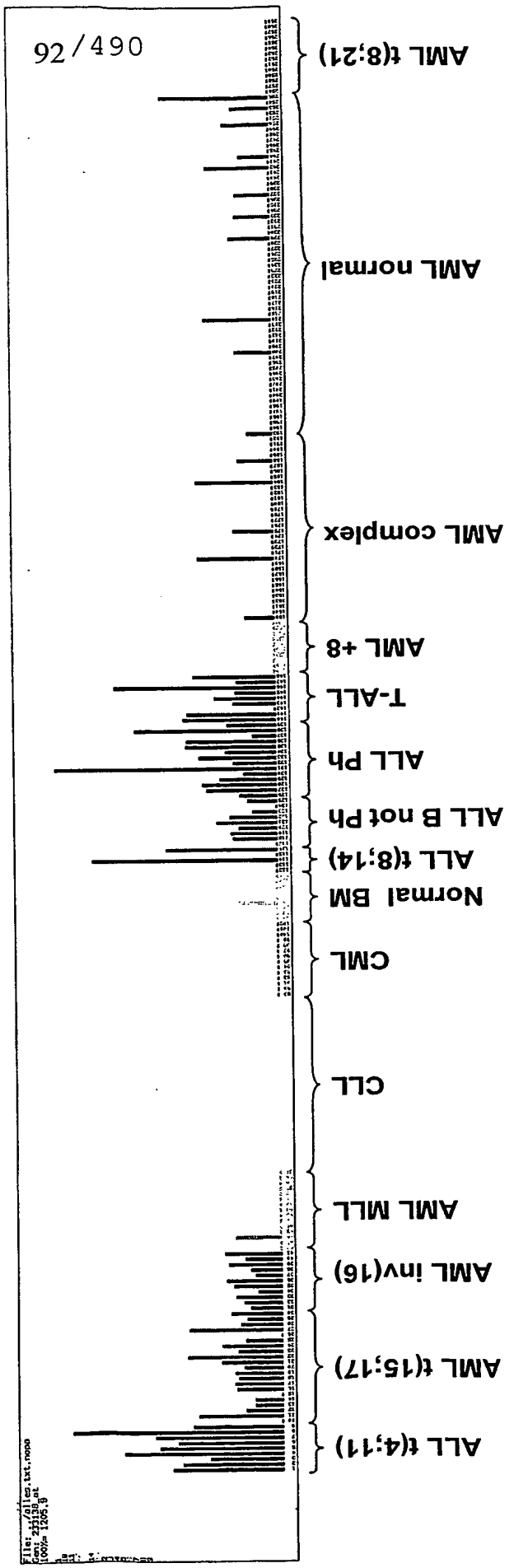

233138_at, AML inv(16) vs. AML +8
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 66

209190_s_at, DIAPH1, AML inv(16) vs. AML complex

Figure 67

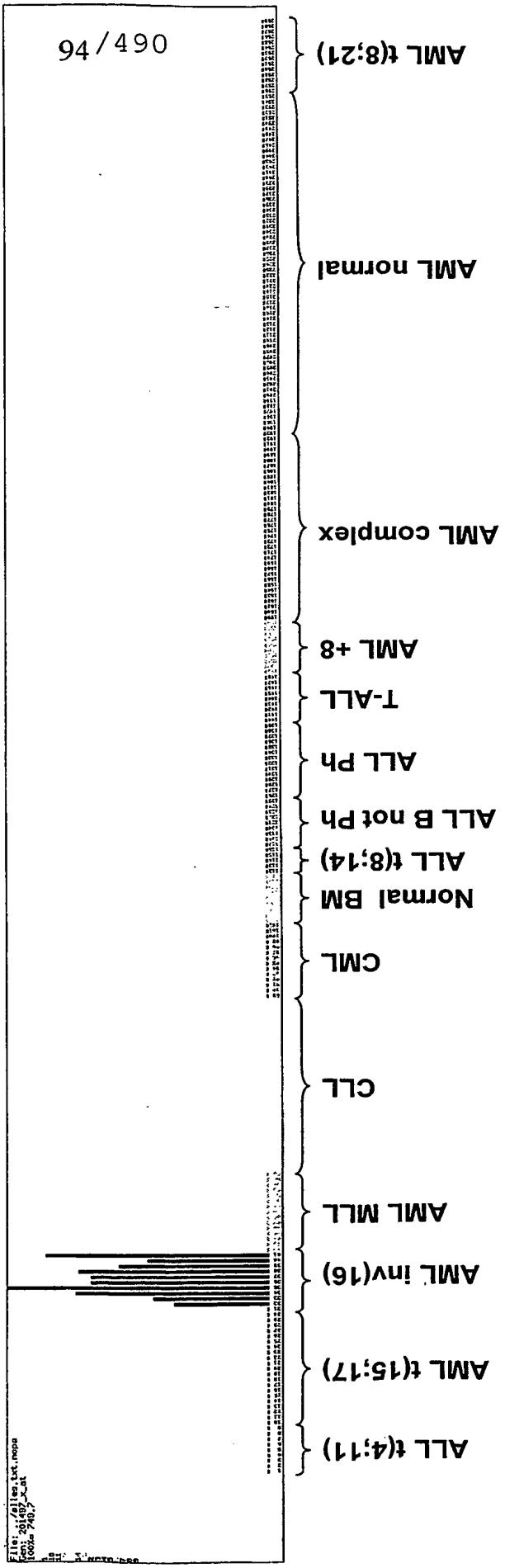

201497_x_at, MYH11, AML inv(16) vs. AML complex
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 68

200675_at, CD81, AML inv(16) vs. AML complex

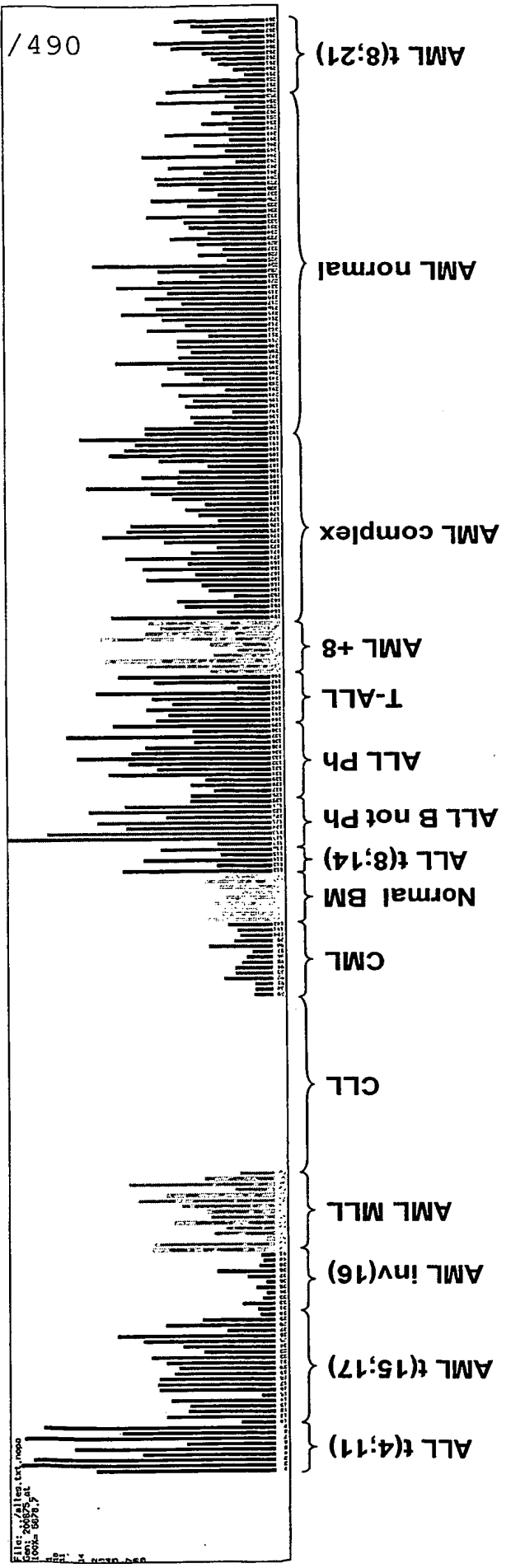


Figure 69

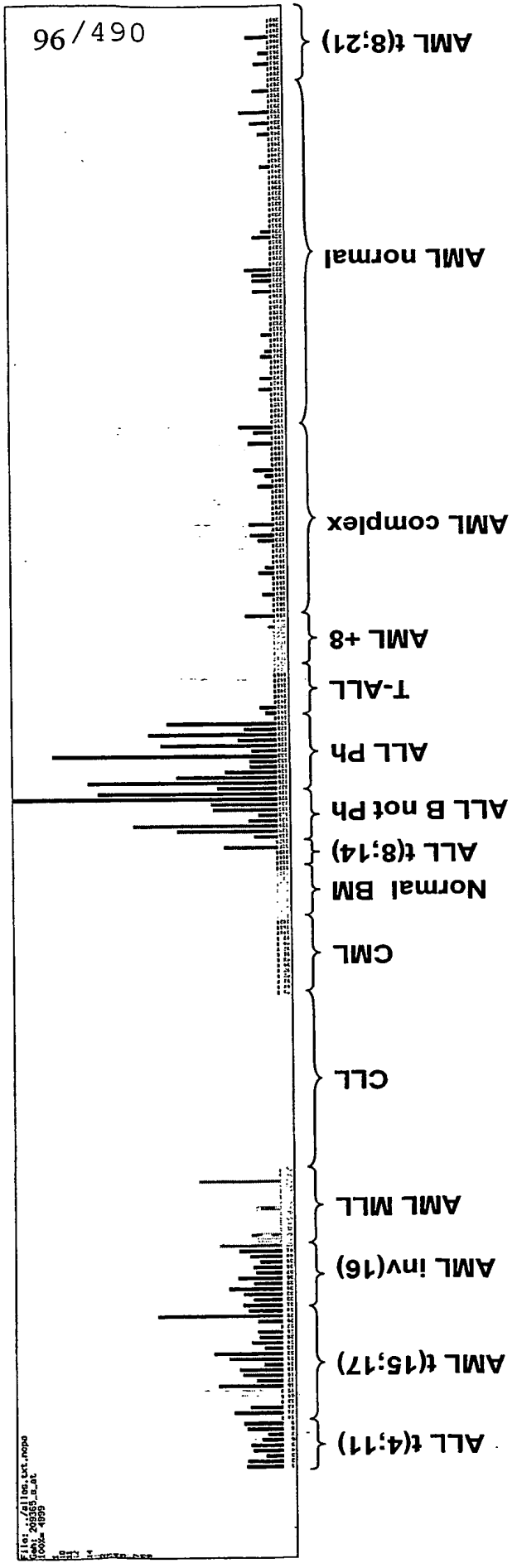

209365_s_at, ECM1, AML inv(16) vs. AML normal
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 70

214641_s_at, HOXA9, AML inv(16) vs. AML normal

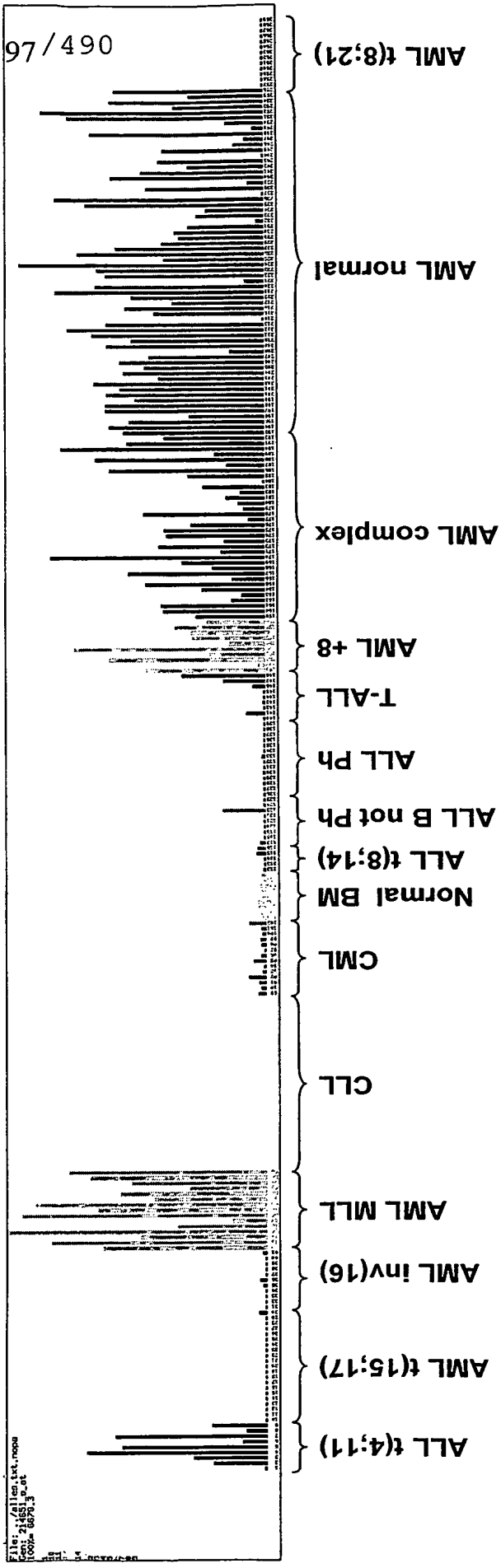


Figure 71

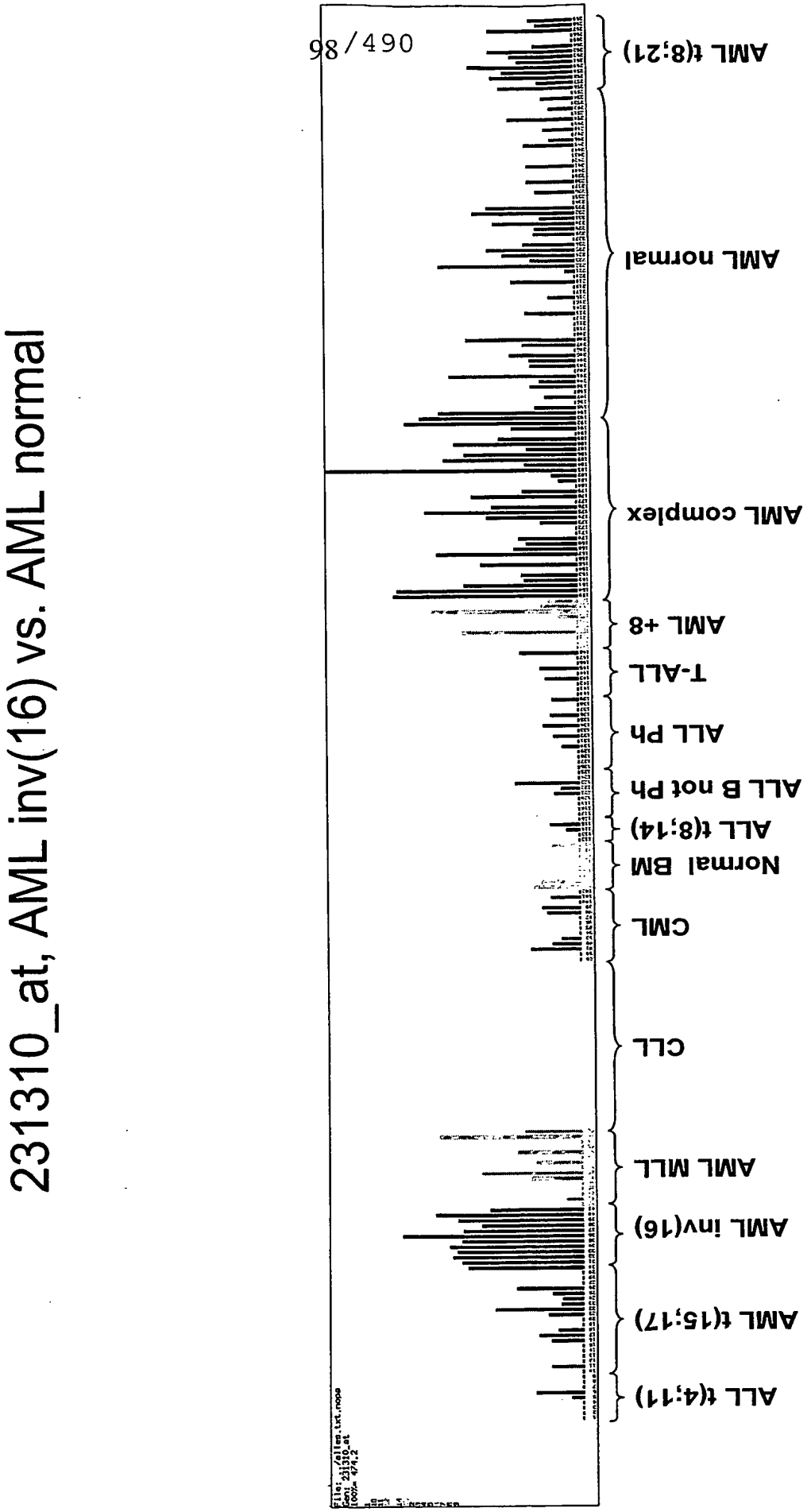

231310_at, AML inv(16) vs. AML normal
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 72

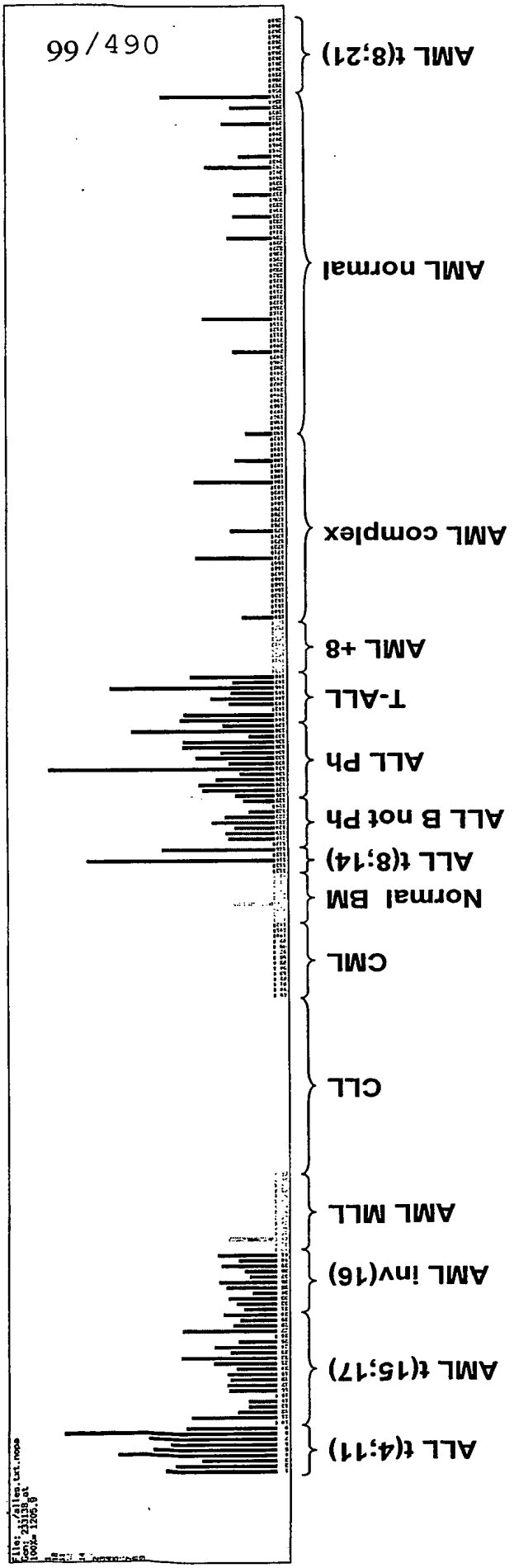

233138_at, AML inv(16) vs. AML t(8;21)
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 73

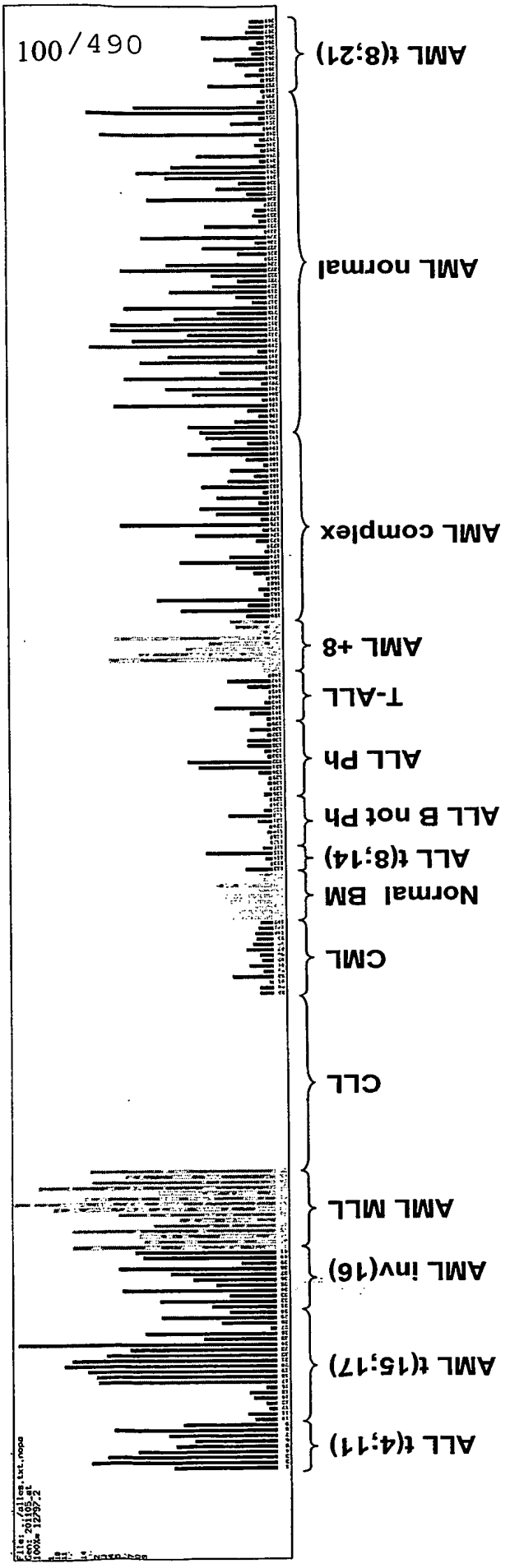

201105_at, LGALS1, AML MLL vs. all others
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 74

222982_x_at, SLC38A2, AML MLL vs. all others

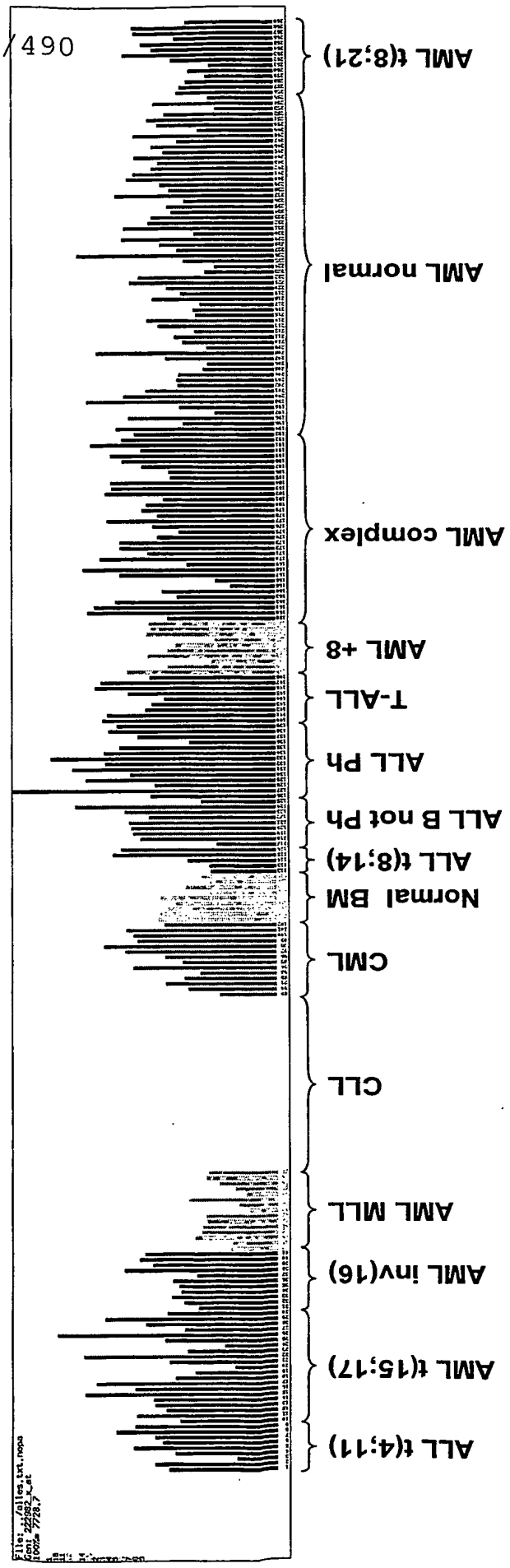


Figure 75

238856_s_at, AML MLL vs. all others

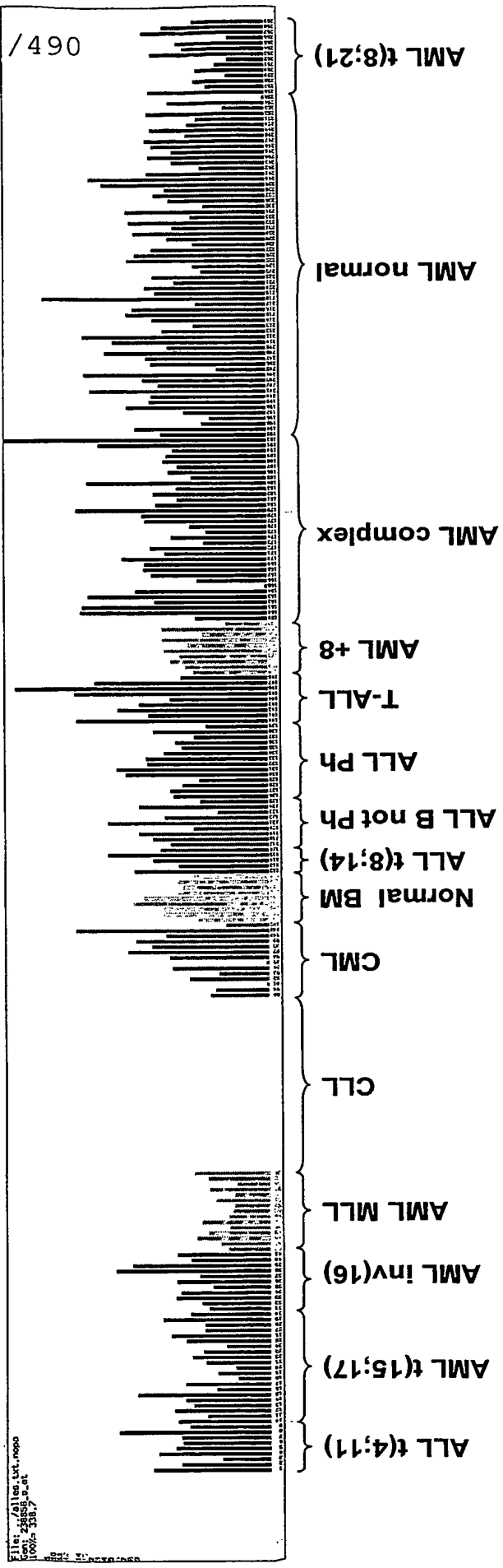


Figure 76

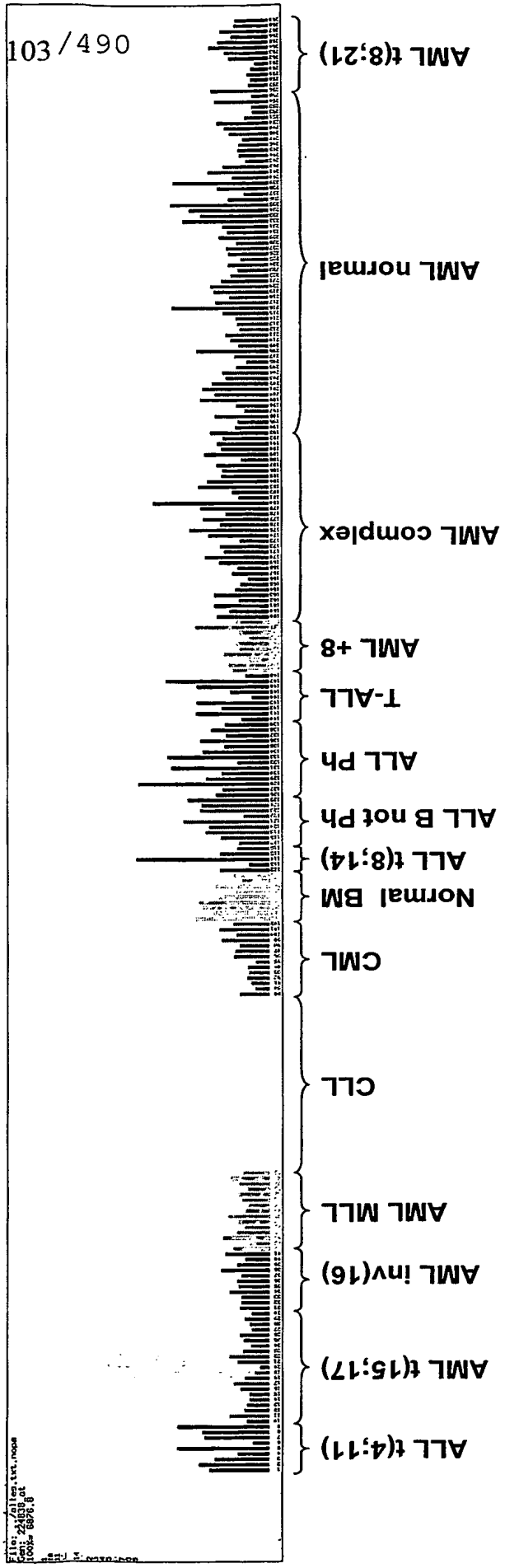

224838_at, AML MLL vs. CLL
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 77

209771_x_at, CD24, AML MLL vs. CML

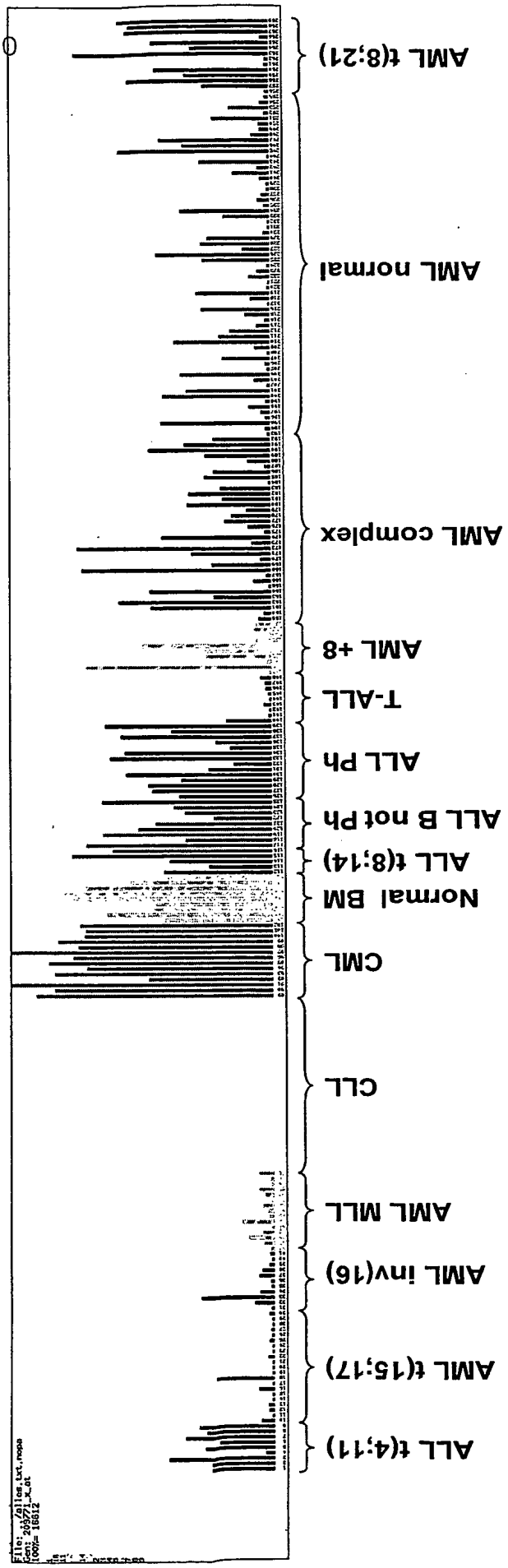


Figure 78

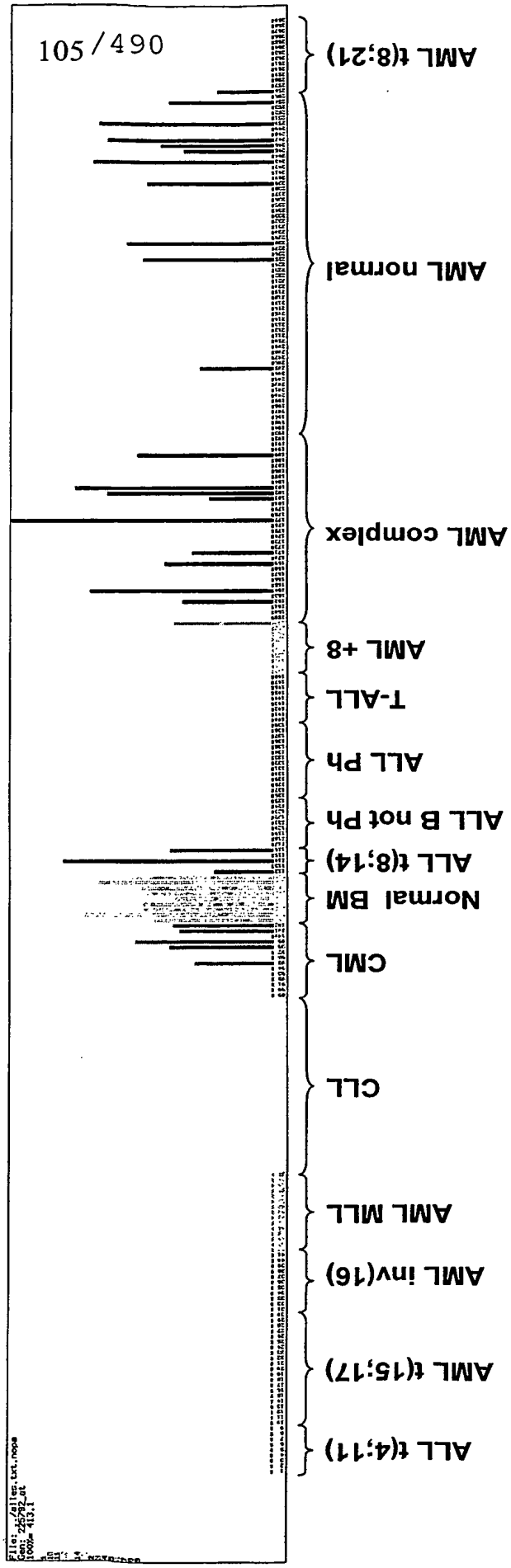

225792_at, AML MLL vs. normal BM
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 79

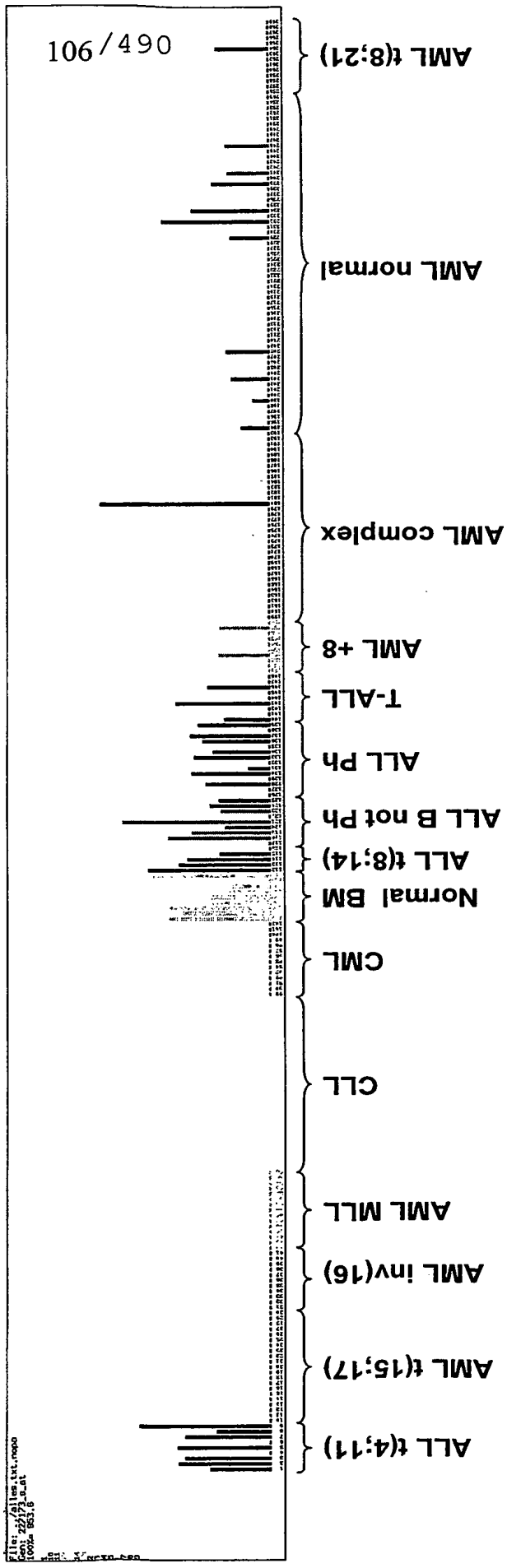

227173_s_at, BACH2, AML MLL vs. ALL t(8;14)
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 80

201482_at, QSCN6, AML MLL vs. ALL B not Ph

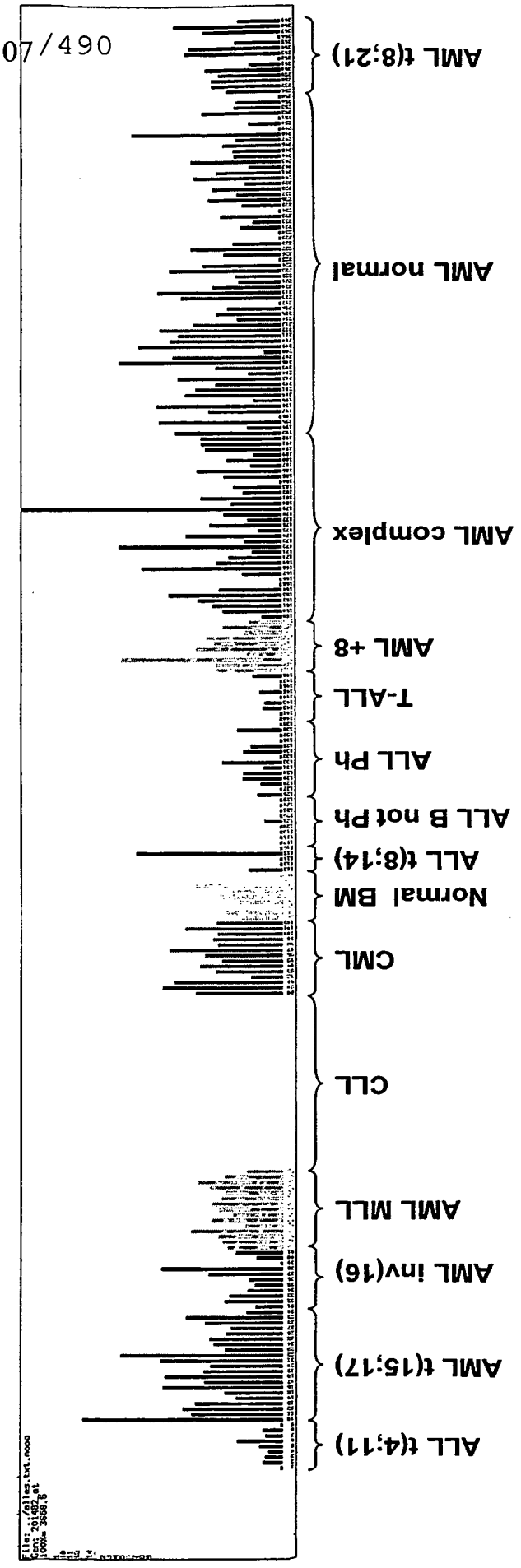


Figure 81

234107_s_at, AML MLL vs. ALL Ph

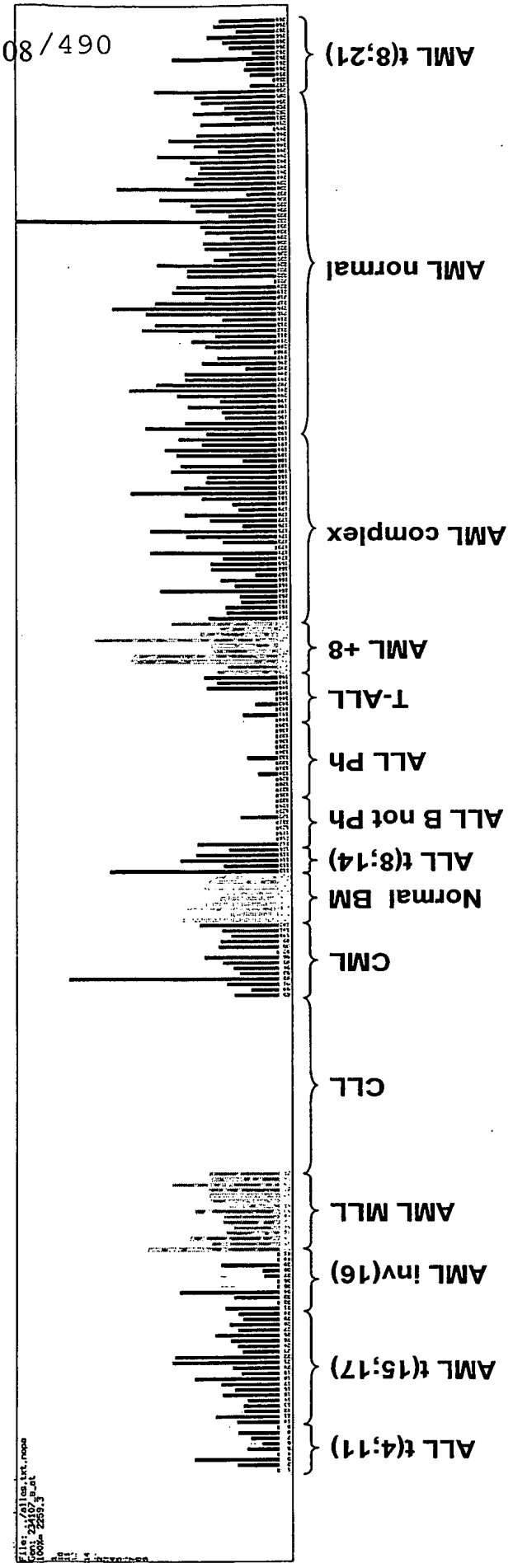


Figure 82

242292_at, AML MLL vs. T-ALL

Figure 83

212479_s_at, FLJ13910, AML MLL vs. AML +8

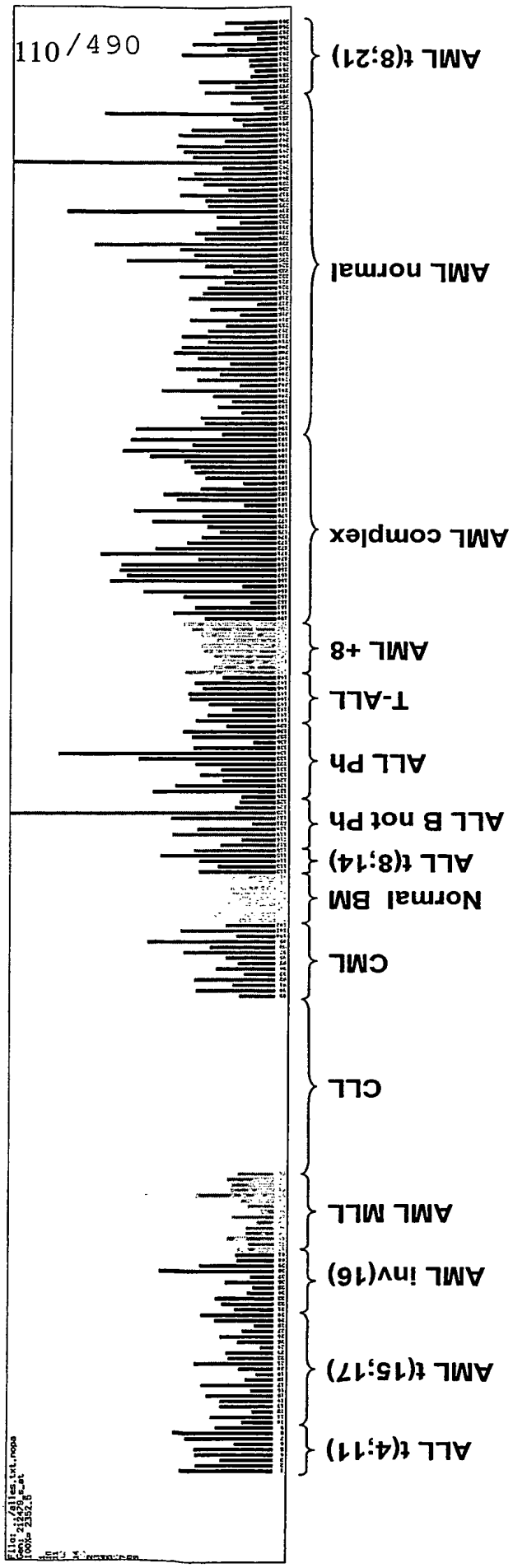


Figure 84

218172_s_at, PRO2577, AML MLL vs. AML +8

Figure 85

200867_at, AML MLL vs. AML +8

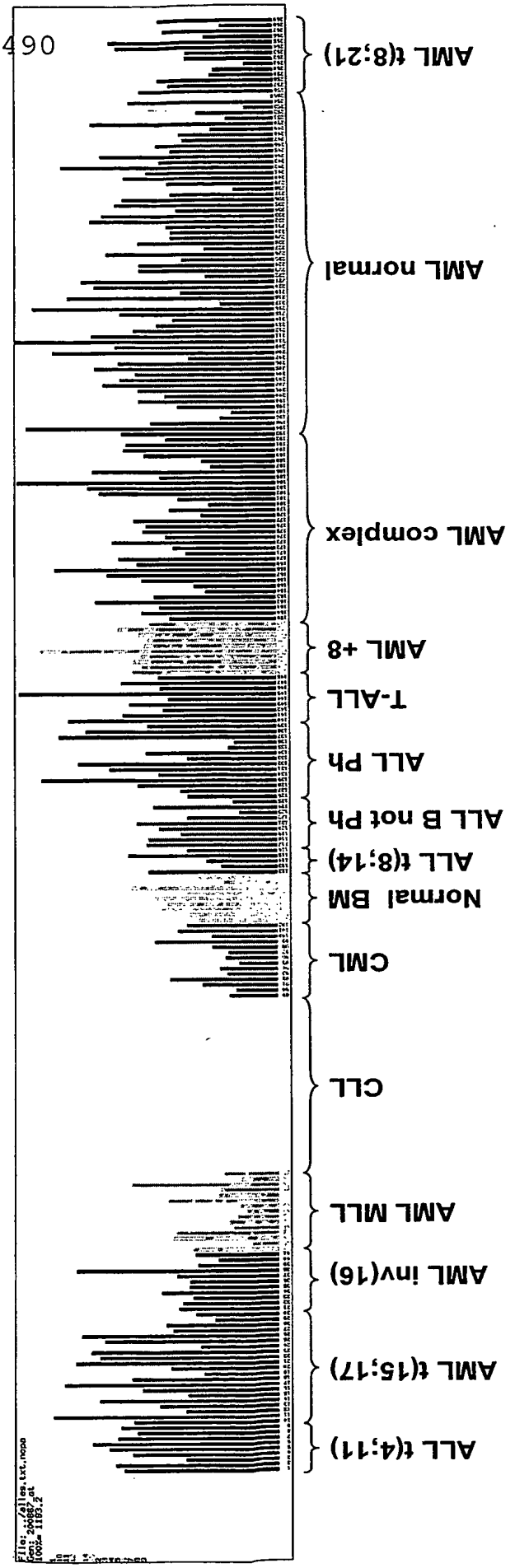


Figure 86

202956_at, BIG1, AML MLL vs. AML +8

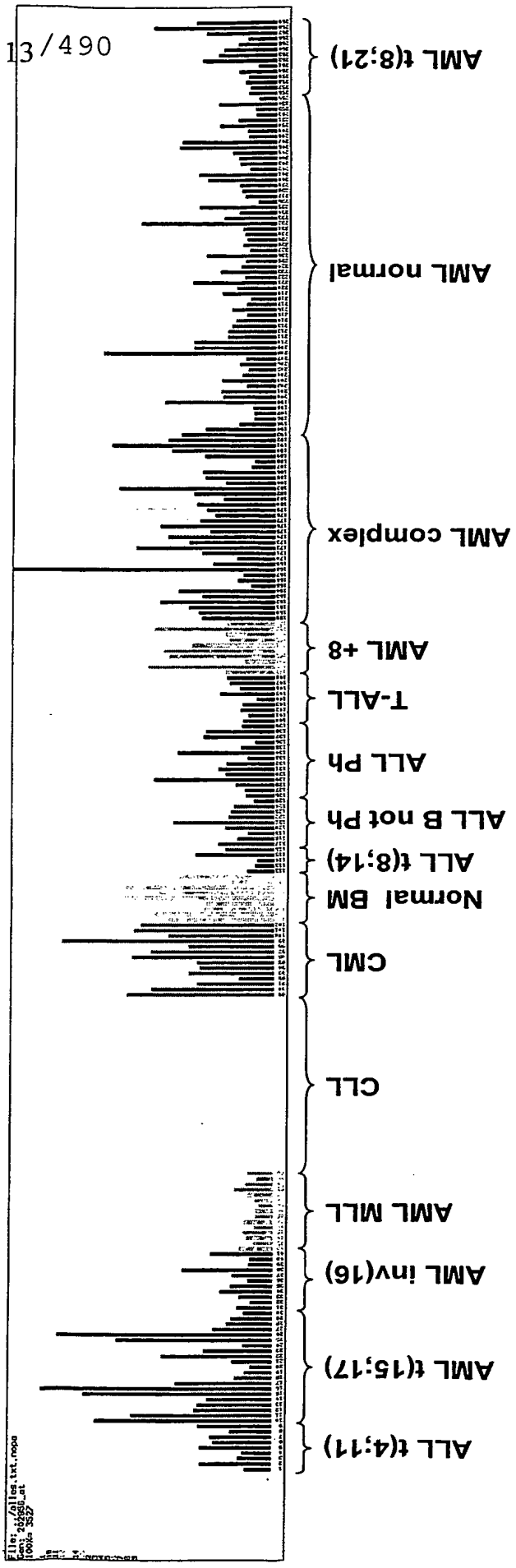


Figure 87

202746_at, AML MLL vs. AML complex

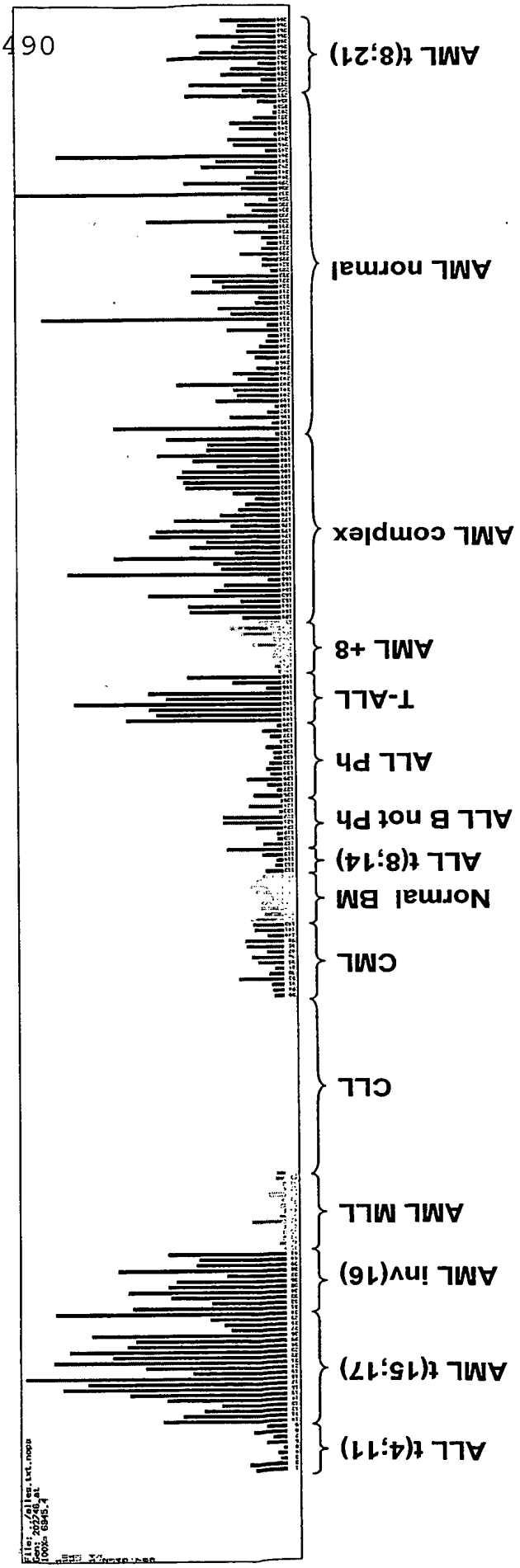


Figure 88

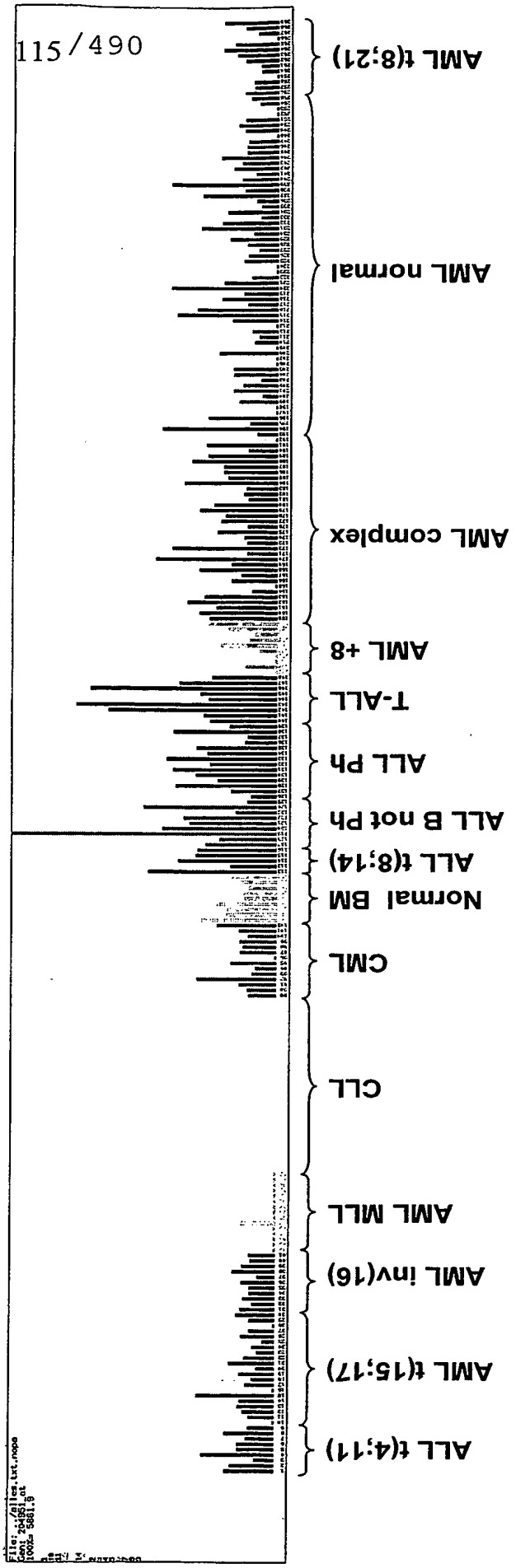

204951_at, ARHH, AML MLL vs. AML complex
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 89

205453_at, HOXB2, AML MLL vs. AML normal

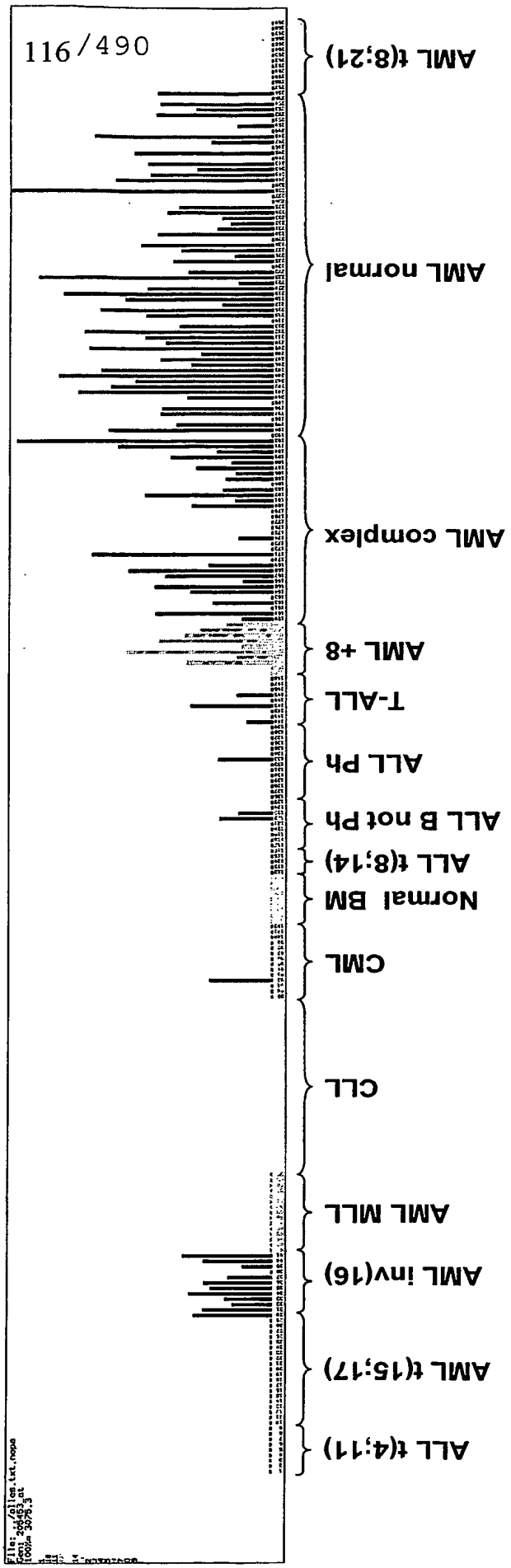


Figure 90

225406_at, TSG, AML MLL vs. AML normal

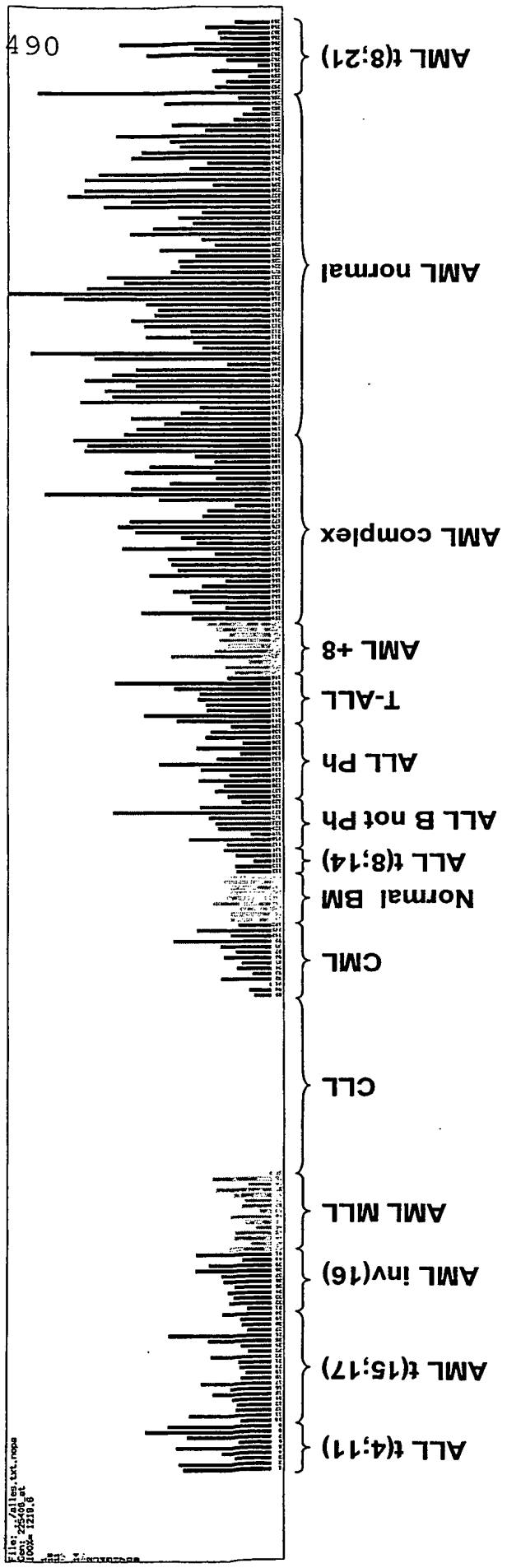


Figure 91

201105_at, LGALS1, AML MLL vs. AML t(8;21)

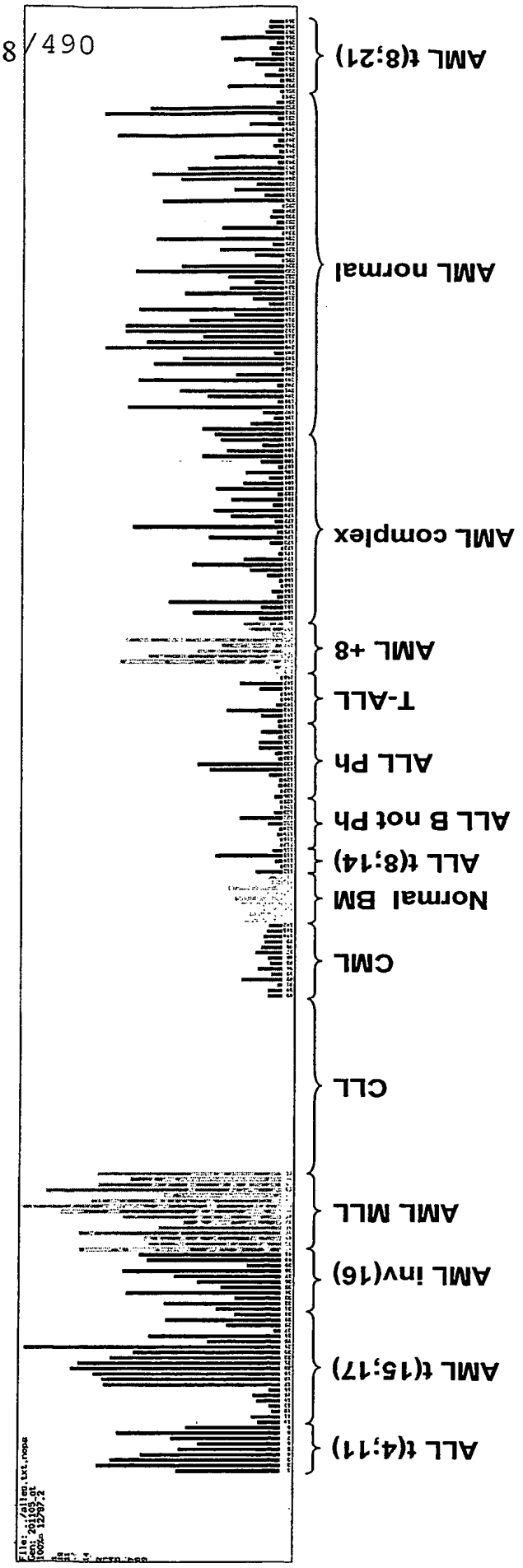


Figure 92

239287_at, CLL vs. all others

Figure 93

210254_at, CLL vs. CML

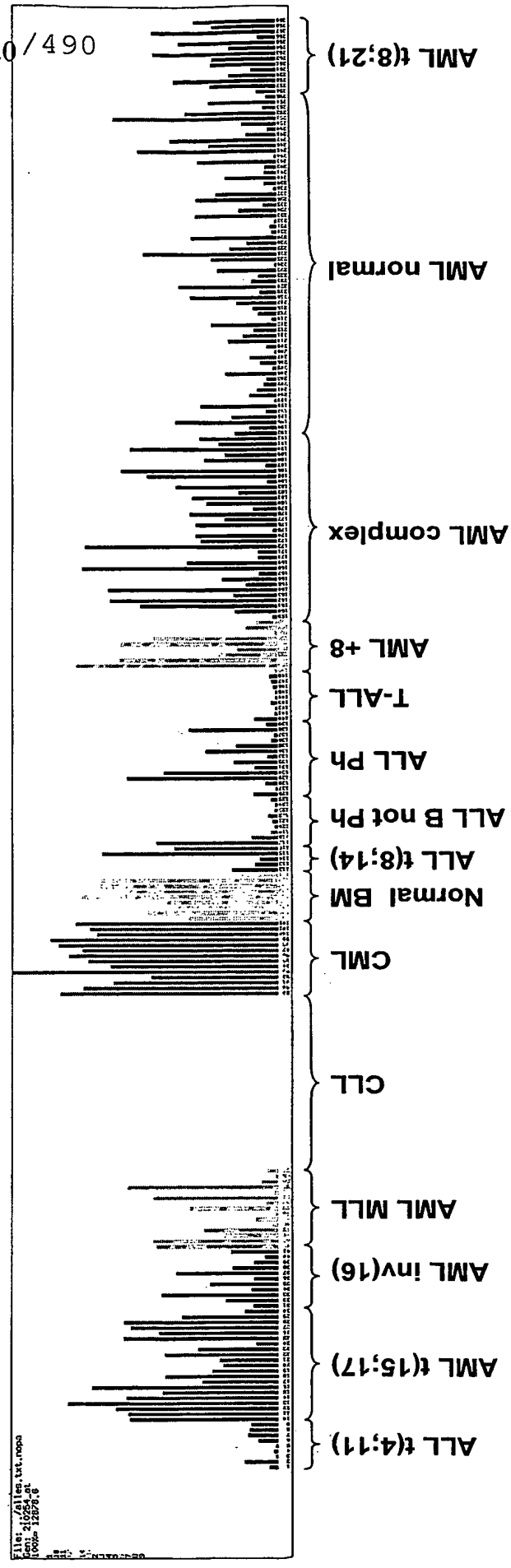


Figure 94

204776_at, THBS4, CLL vs. normal BM

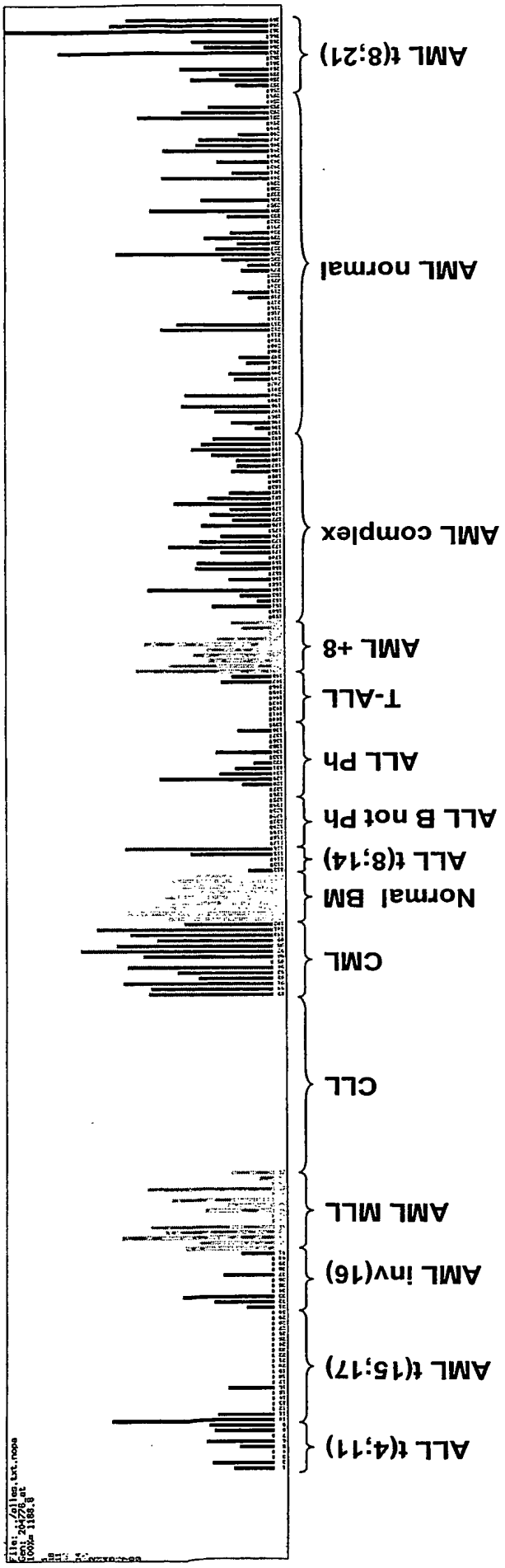


Figure 95

202580_x_at, FOXM1, CLL vs. ALL t(8;14)

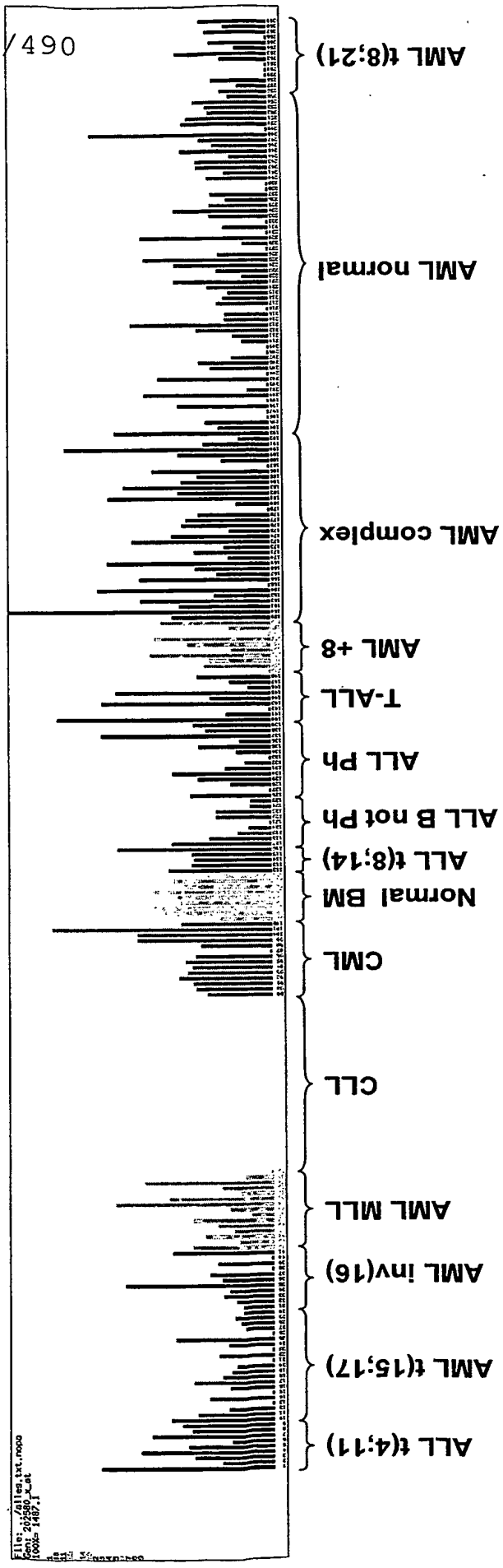


Figure 96

225927_at, MAP3K1, CLL vs. ALL B not Ph

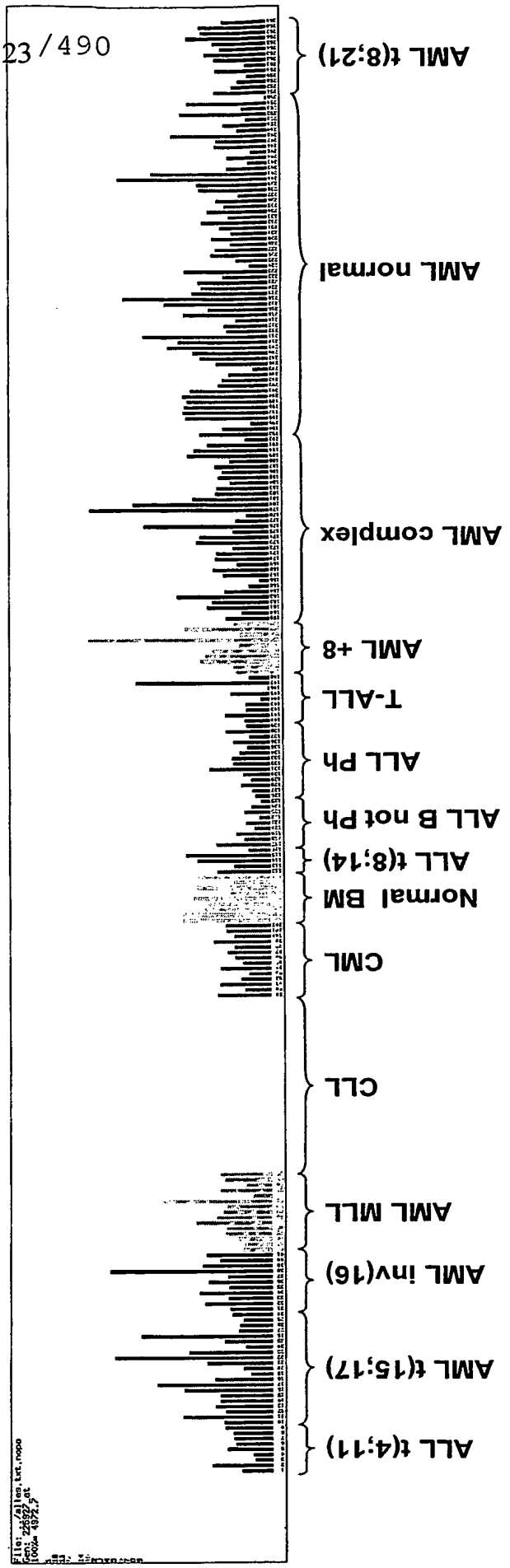


Figure 97

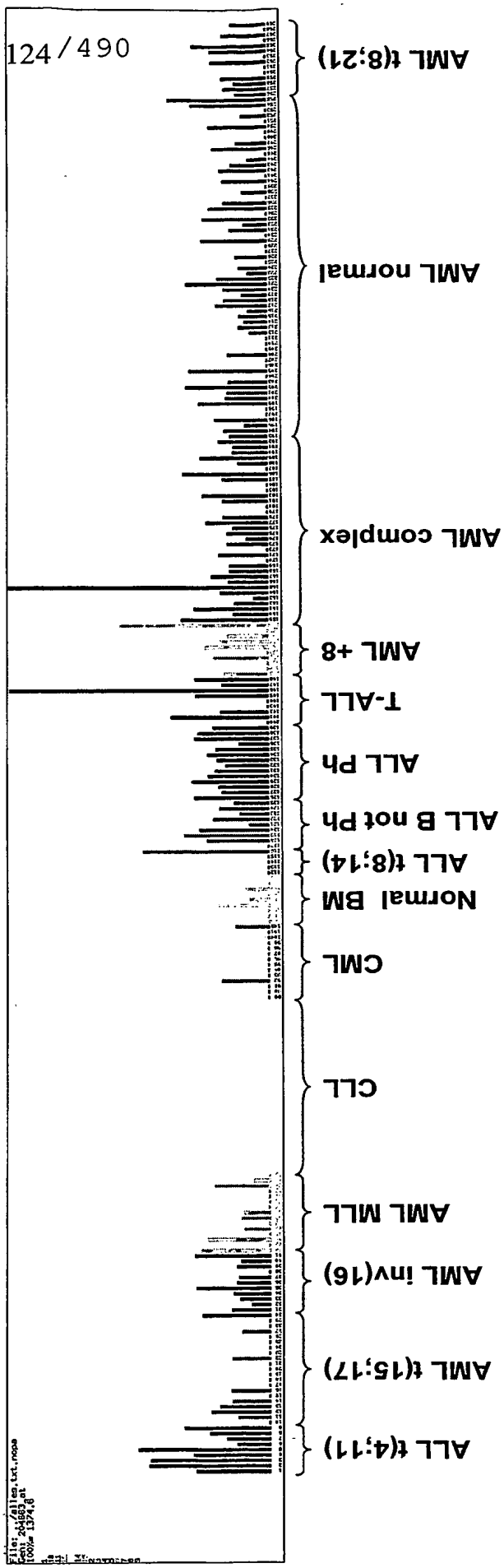

204663_at, ME3, CLL vs. ALL Ph
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 98

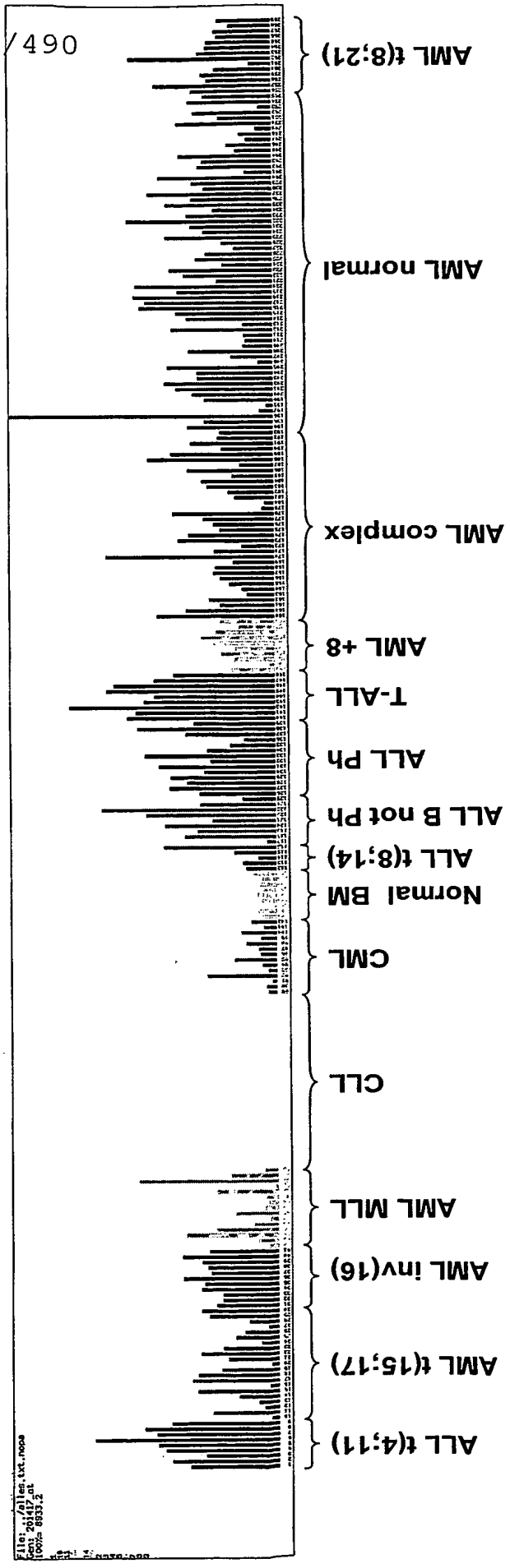

201417_at, CLL vs. T-ALL
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 99

204215_at, MGC4175, CLL vs. AML +8

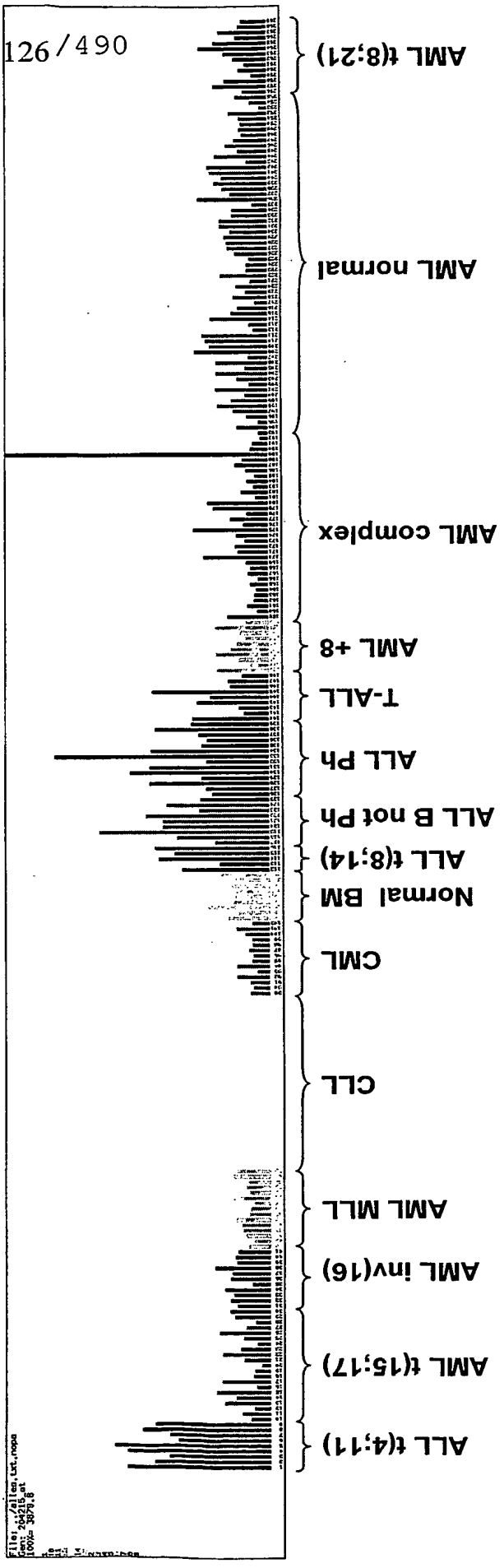


Figure 100

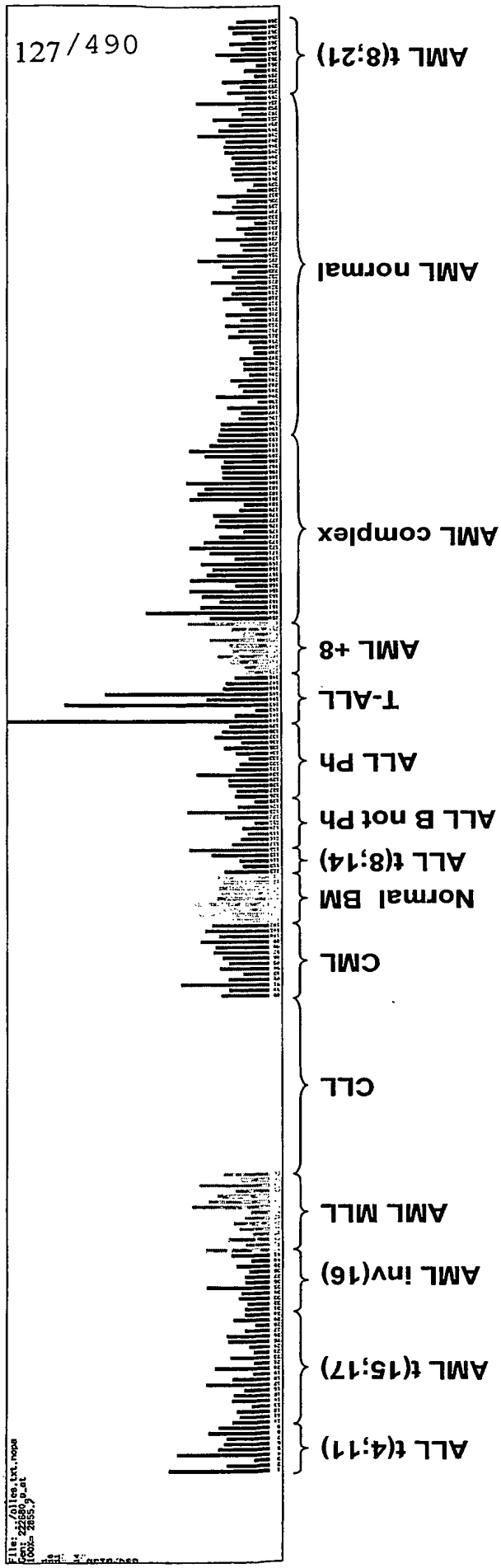

222680_s_at, RAMP, CLL vs. AML complex
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 101

224838_at, CLL vs. AML normal

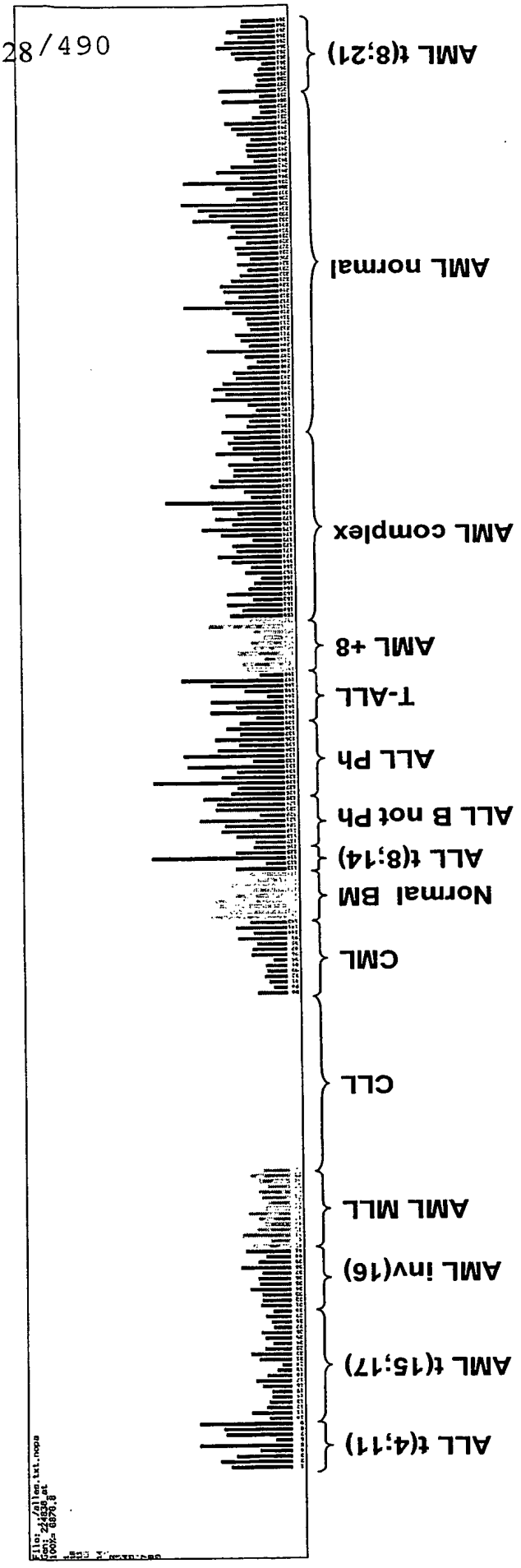


Figure 102

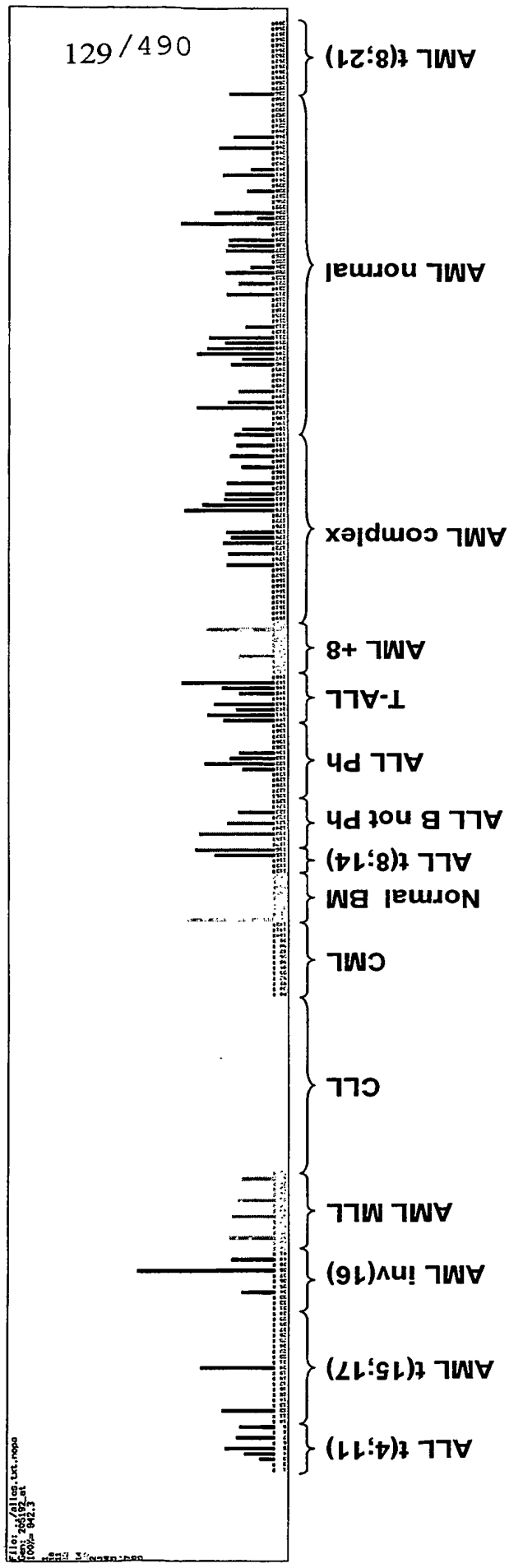

205192_at, MAP3K14, CLL vs. AML t(8;21)
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 103

205557_at, BPI, CML vs. all others

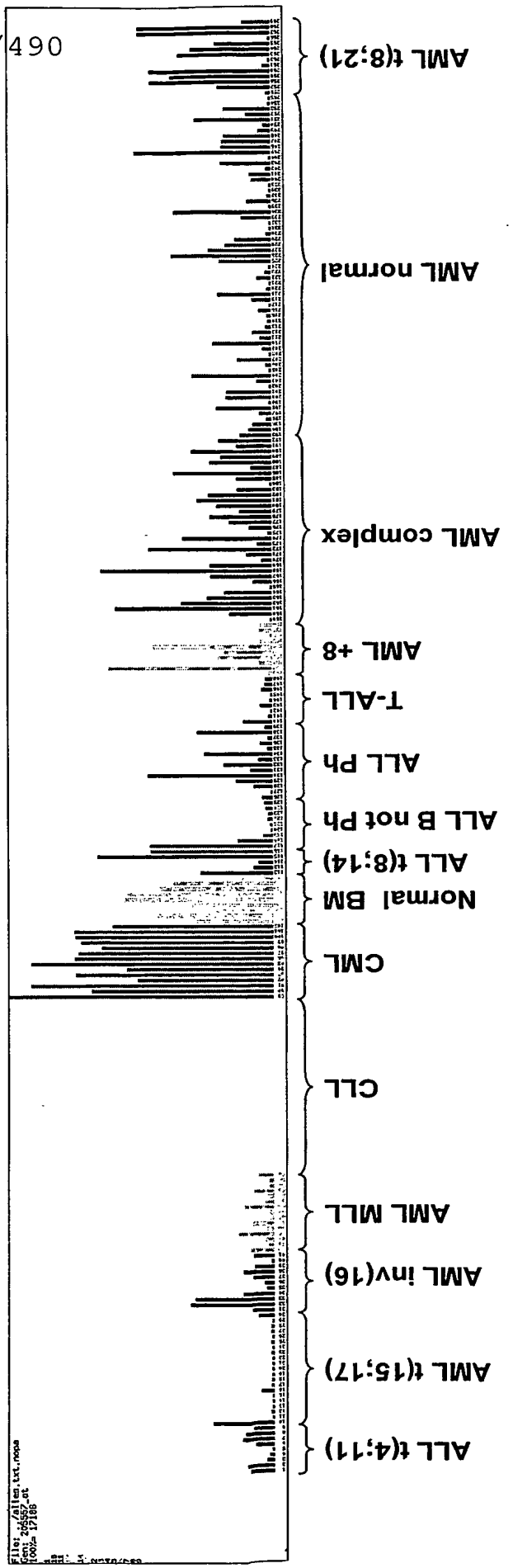


Figure 104

209772_s_at, CD24, CML vs. all others

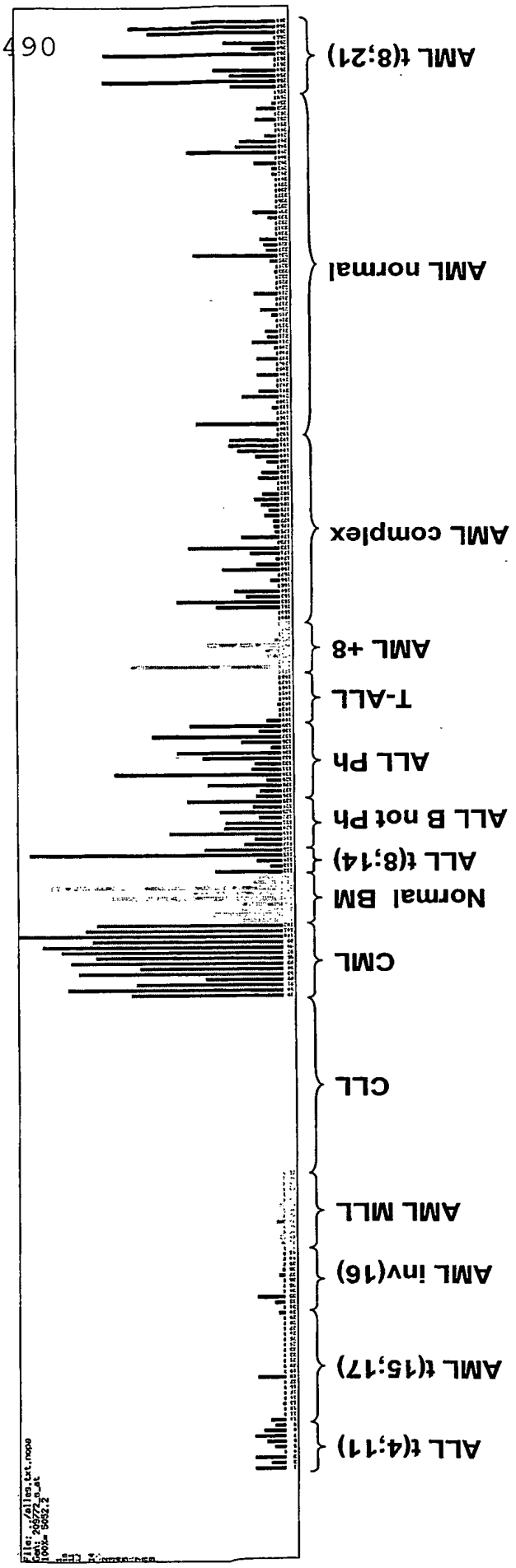


Figure 105

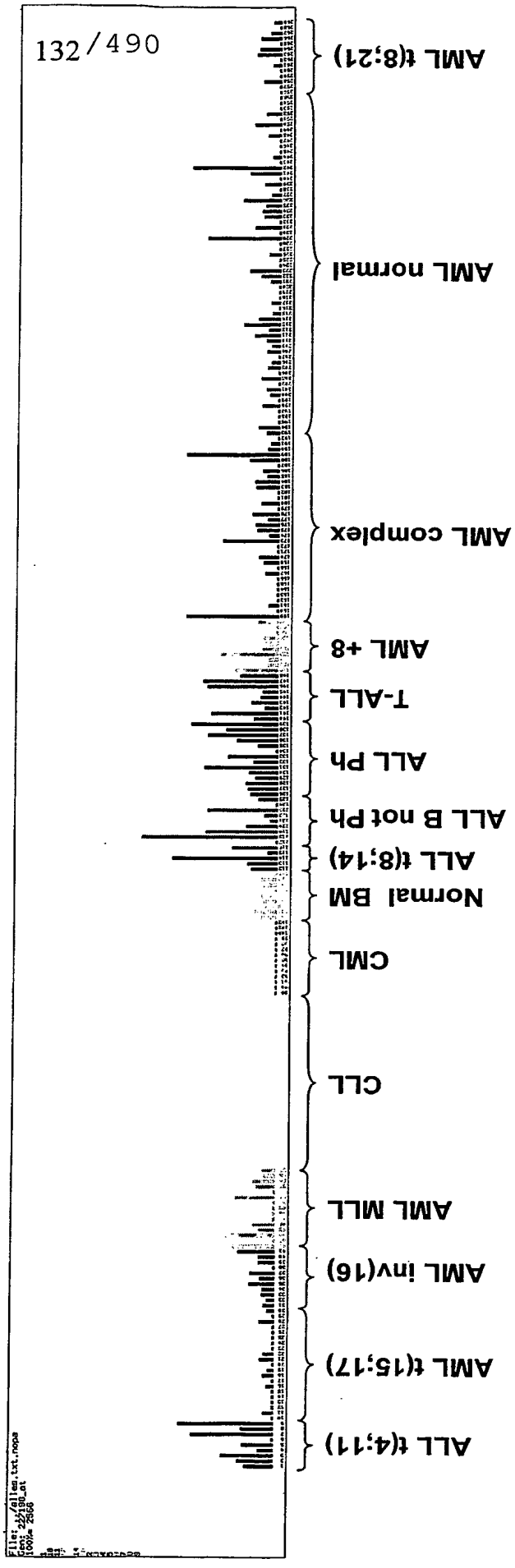

227198_at, CML vs. normal BM
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 106

231215_at, CML vs. ALL t(8;14)
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 107

206440_at, VELI1, CML vs. ALL B not Ph

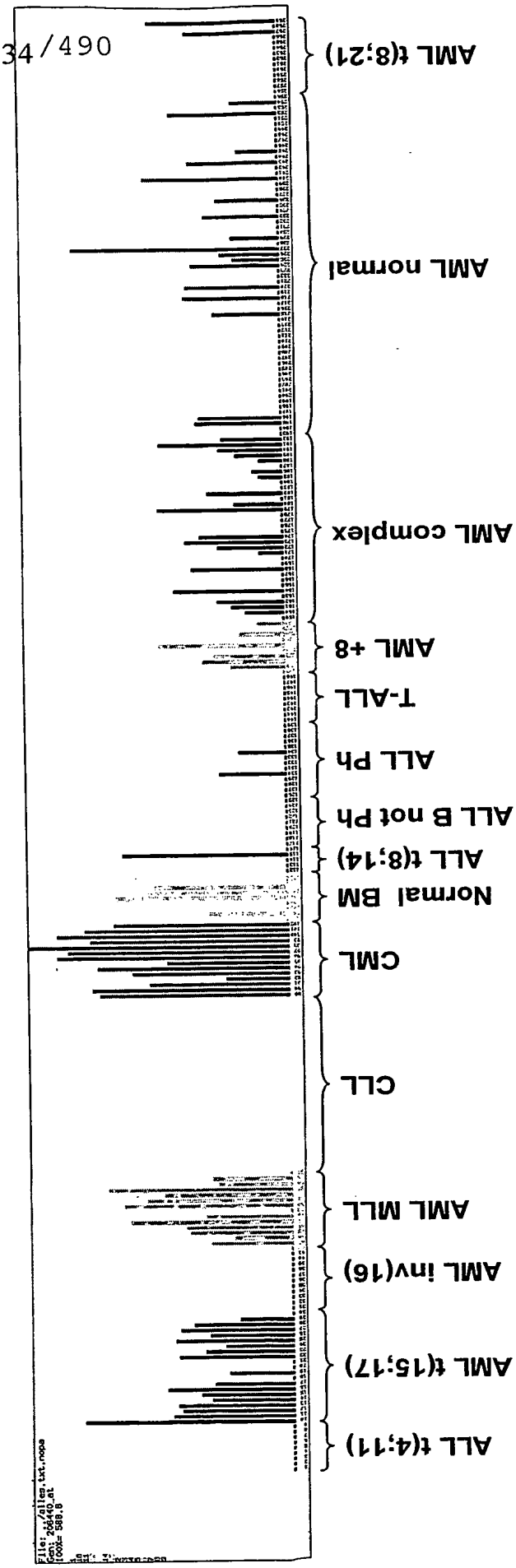


Figure 108

209619_at, CD74, CML vs. ALL Ph

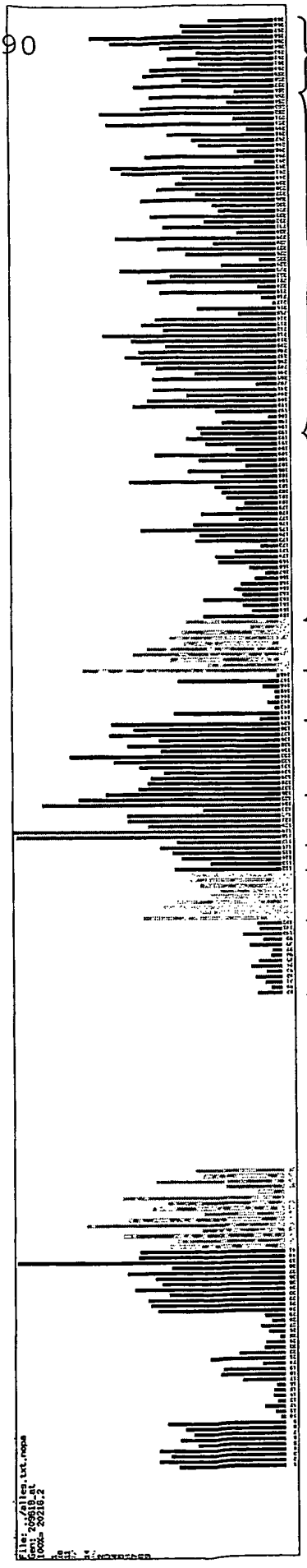


Figure 109

210254_at, CML vs. T-ALL

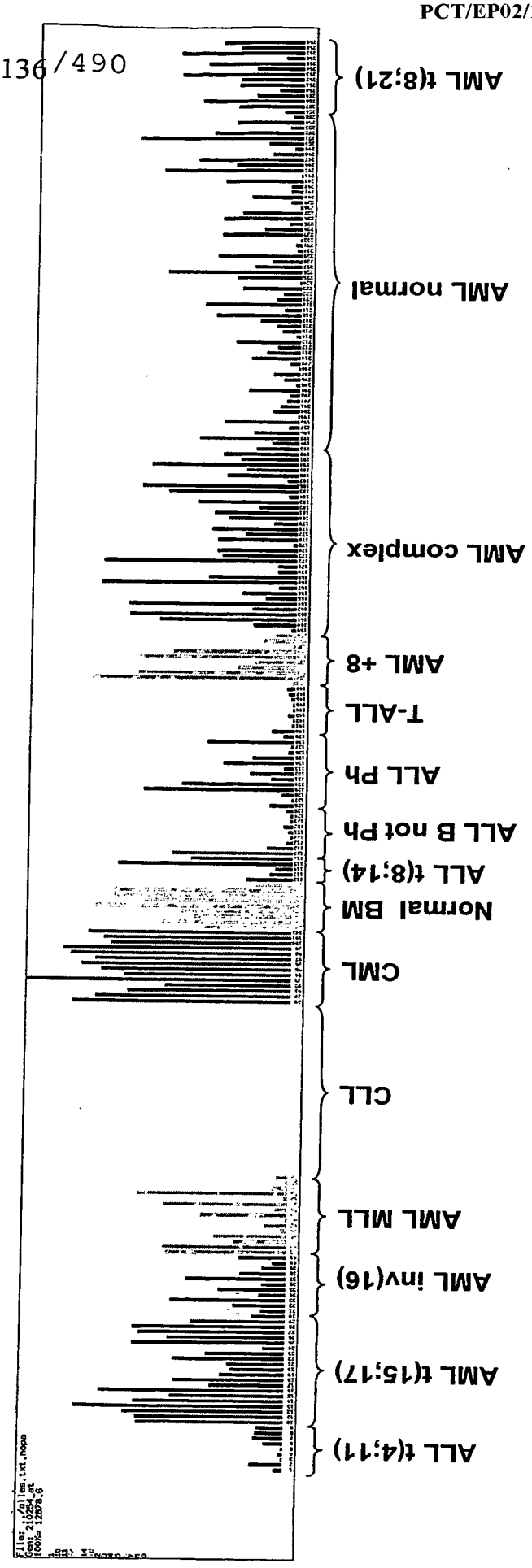


Figure 110

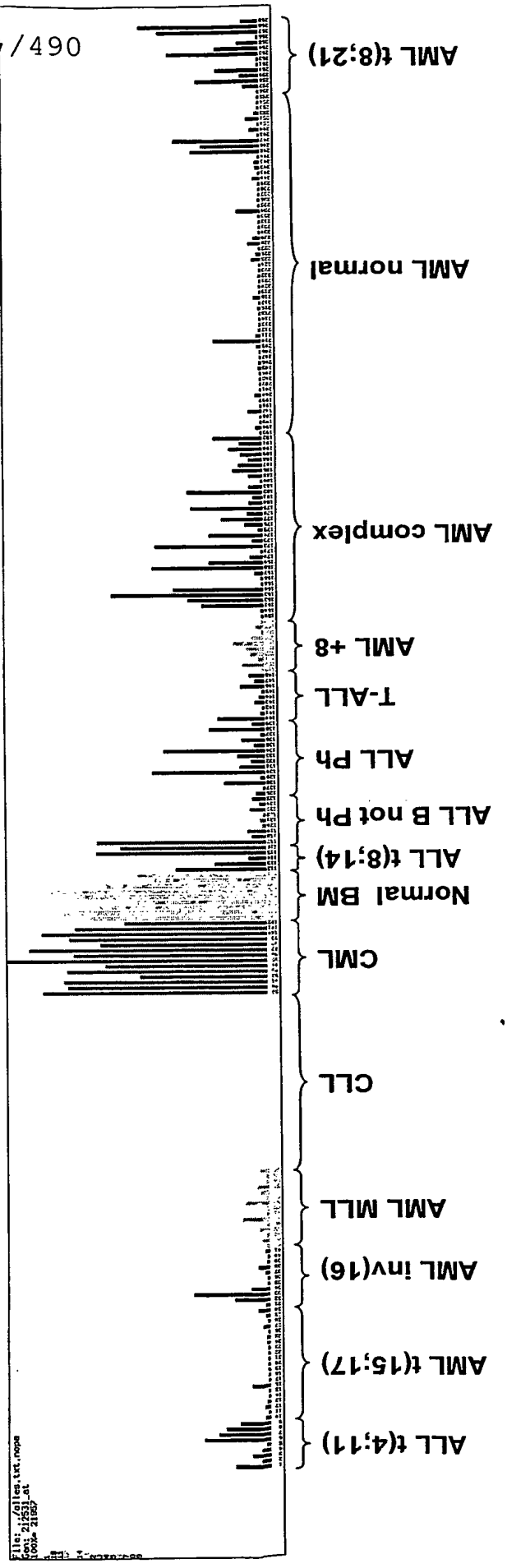

212531_at, LCN2, CML vs. AML +8
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 111

212531_at, LCN2, CML vs. AML complex

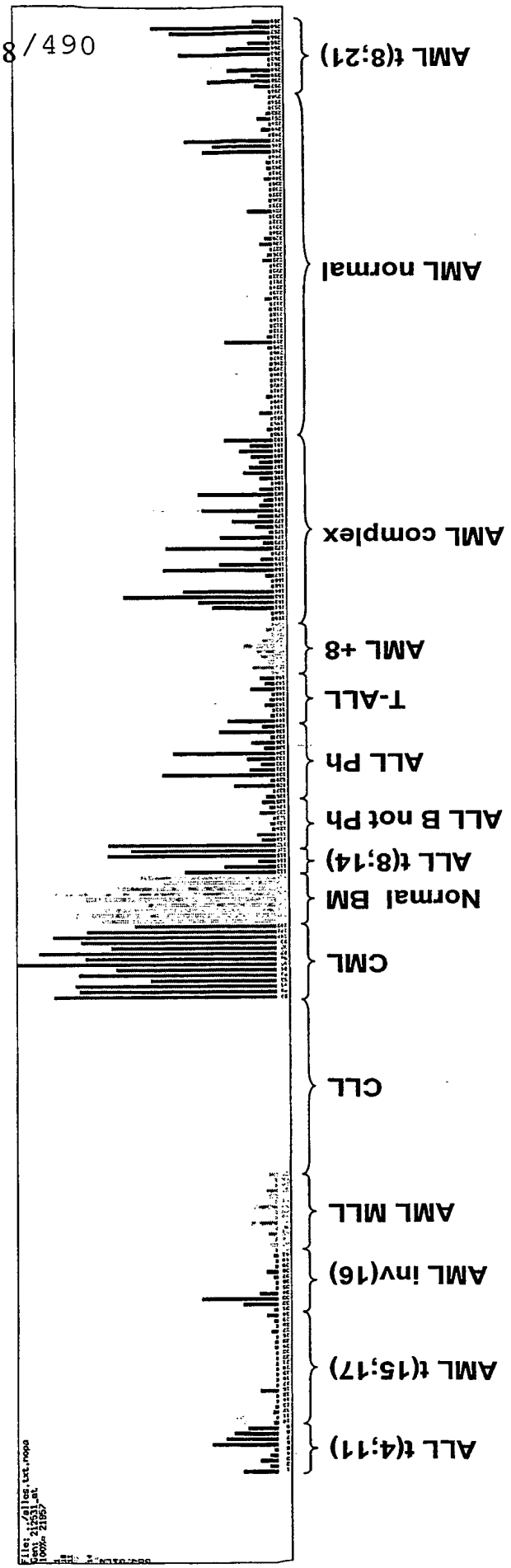


Figure 112

212531_at, LCN2, CML vs. AML normal

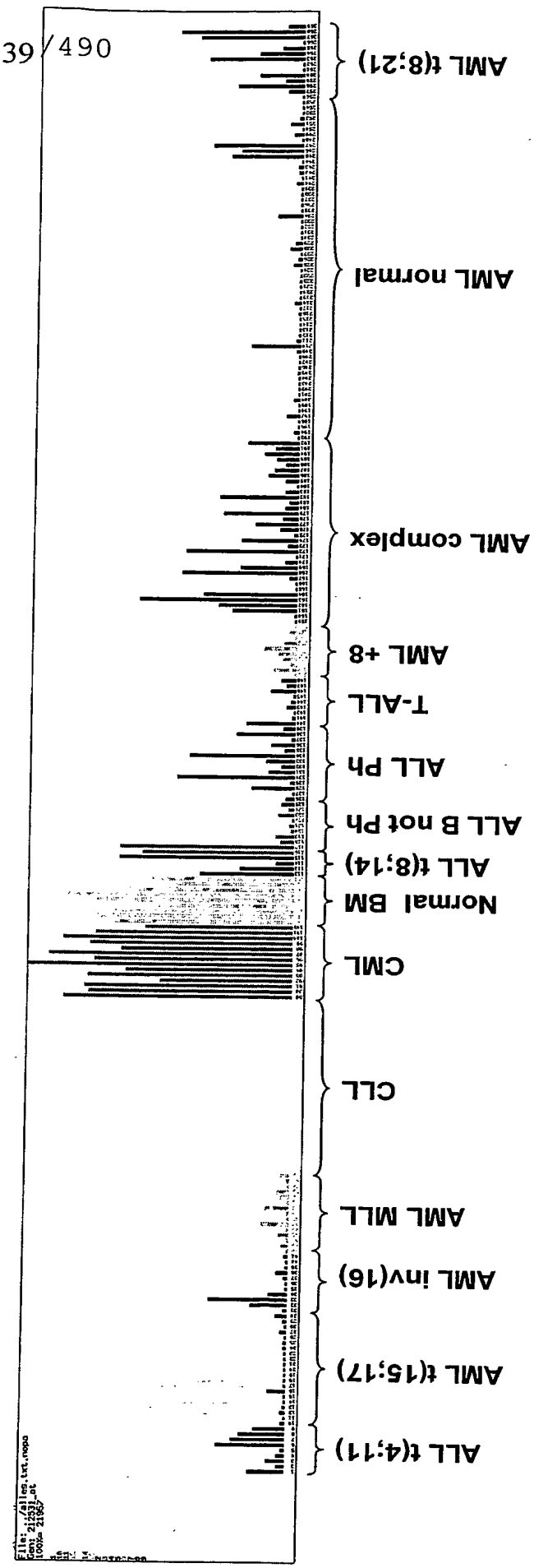


Figure 113

201029_s_at, MIC2, CML vs. AML t(8;21)

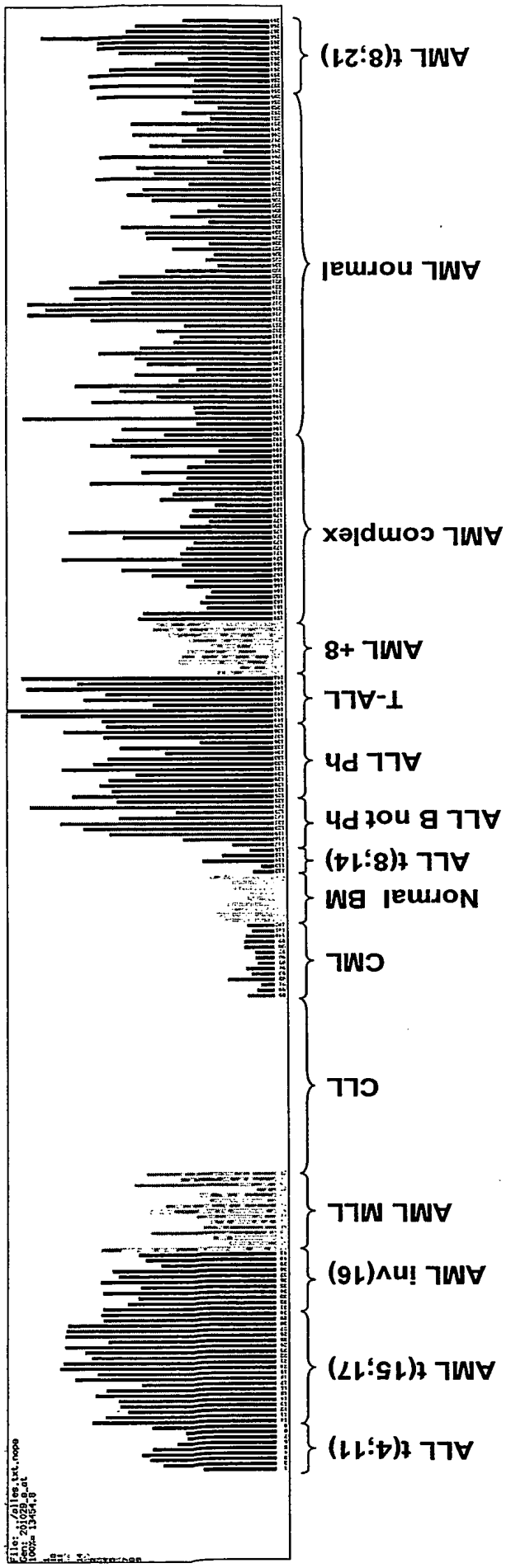


Figure 114

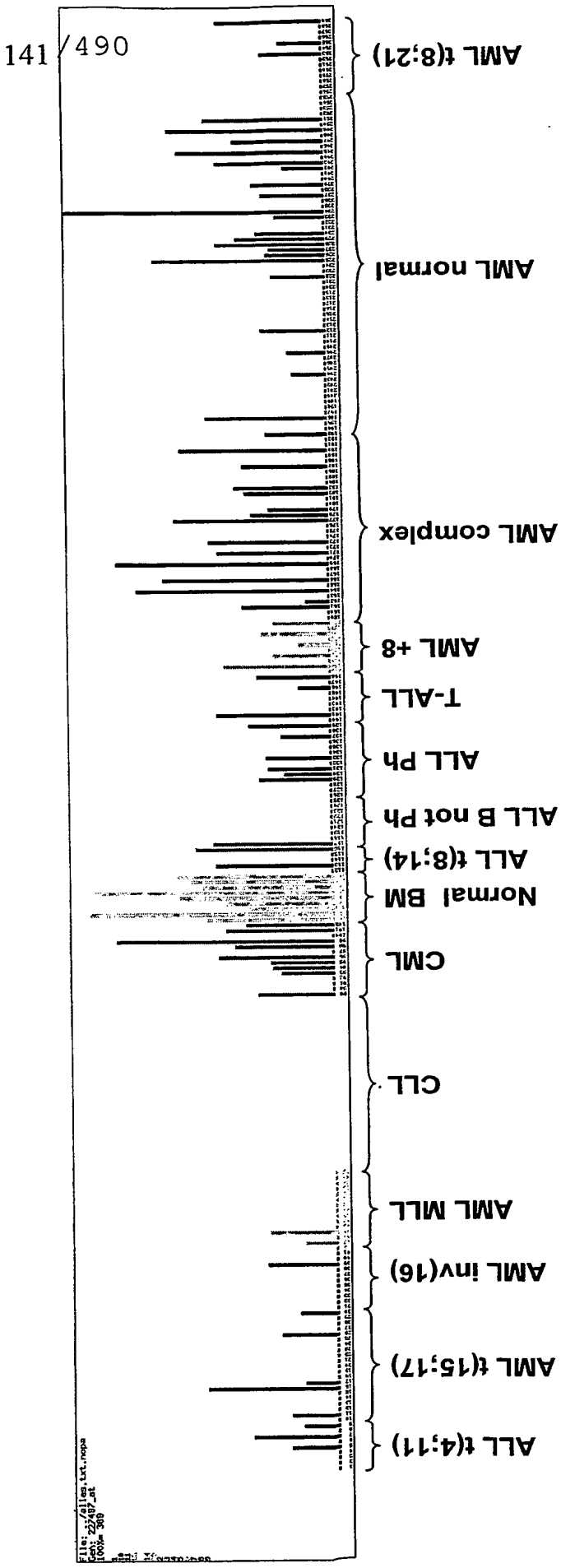

227497_at, CML vs. all others
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 115

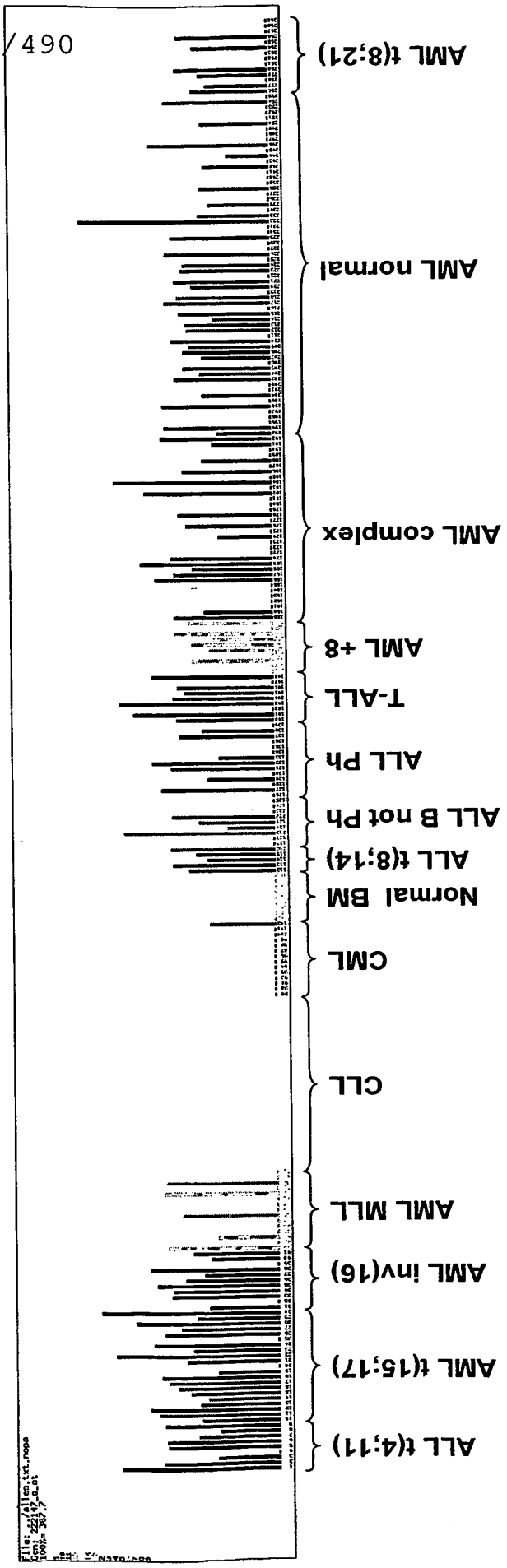

222147_s_at, normal BM vs. ALL t(8;14)
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 116

201506_at, TGFBI, normal BM vs. ALL B not Ph

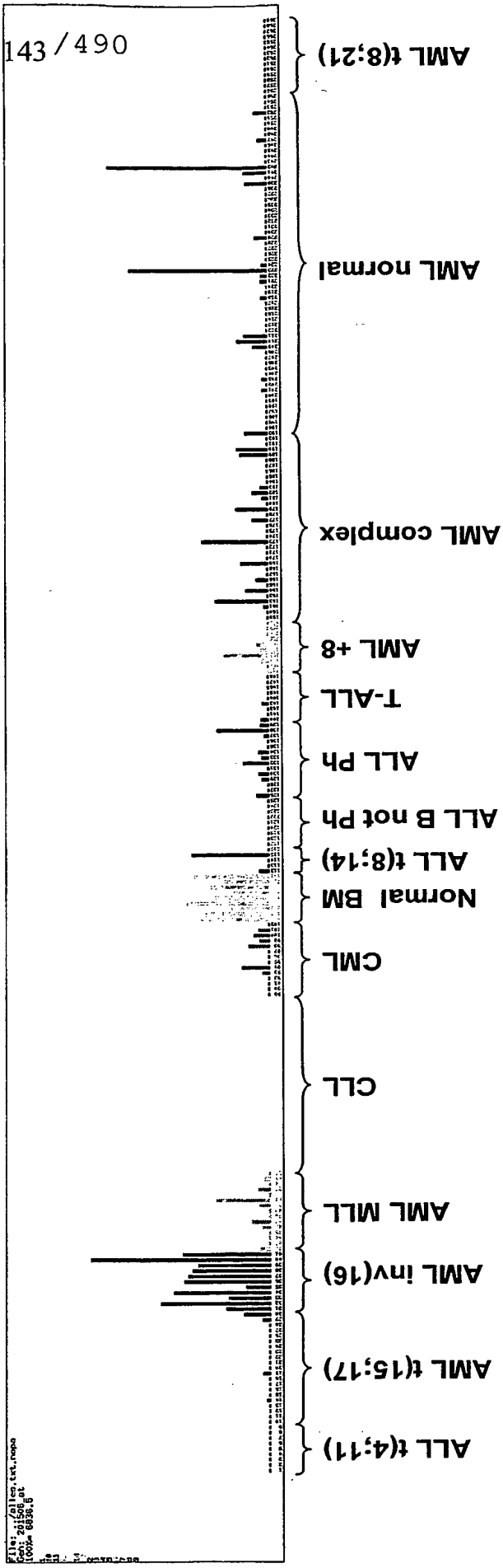


Figure 117

225792_at, normal BM vs. ALL Ph

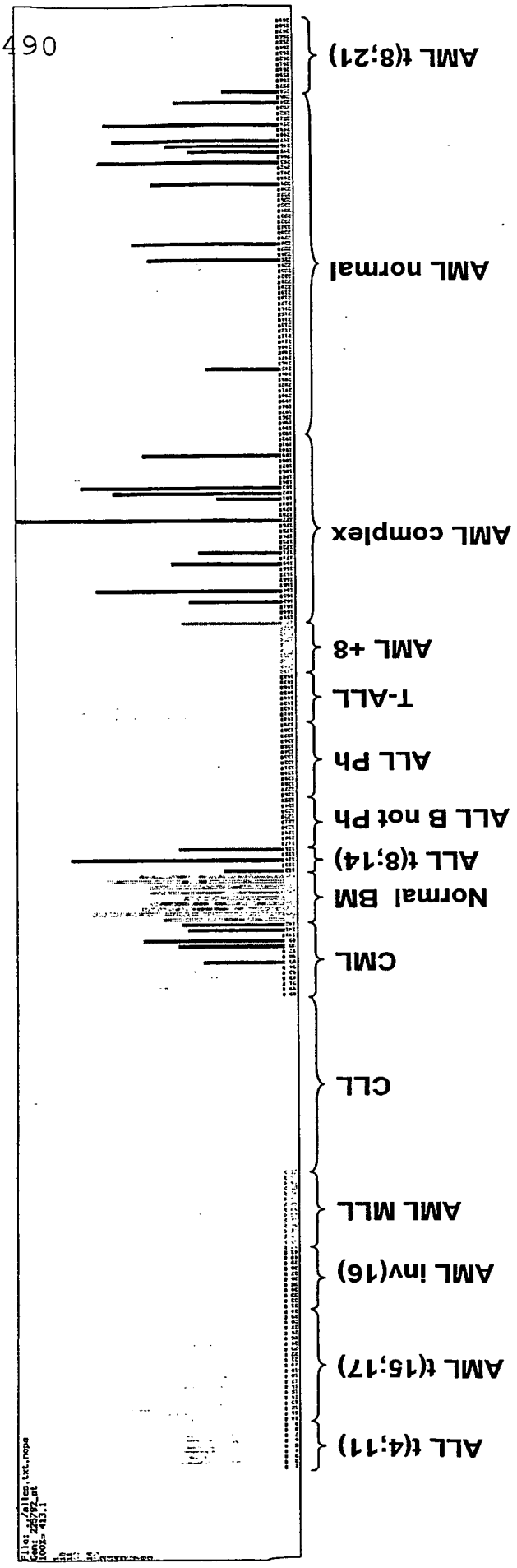


Figure 118

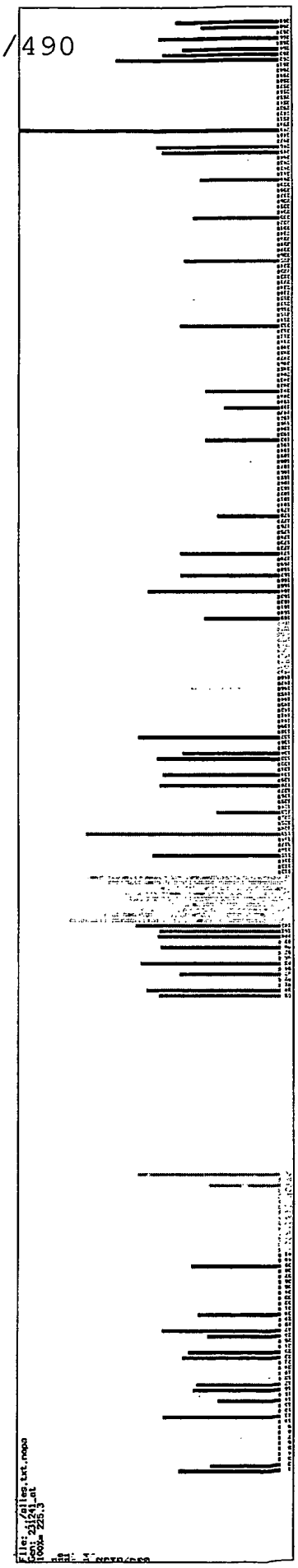

231241_at, normal BM vs. T-ALL
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 119

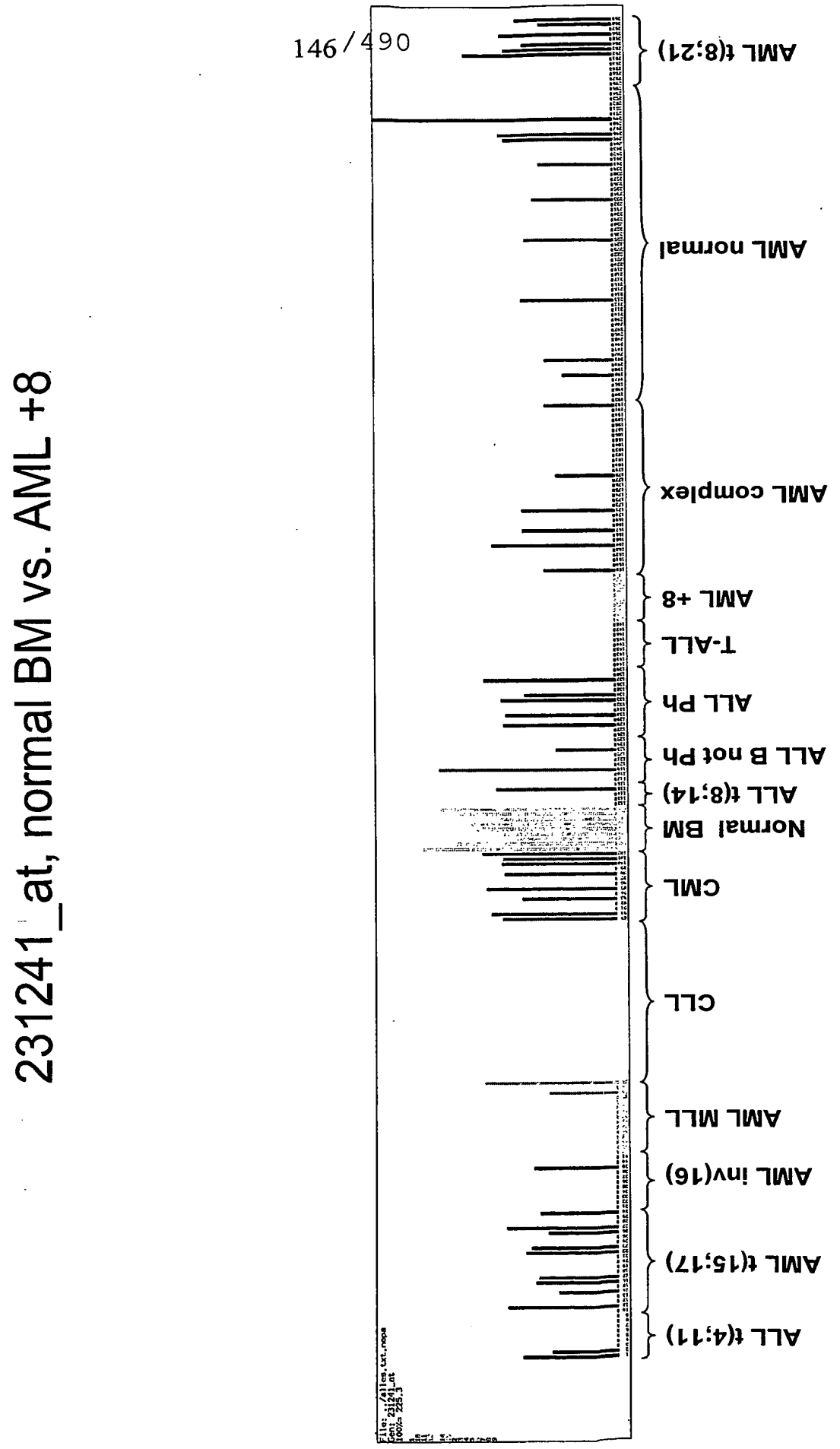

231241_at, normal BM vs. AML +8
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 120

231241_at, normal BM vs. AML complex

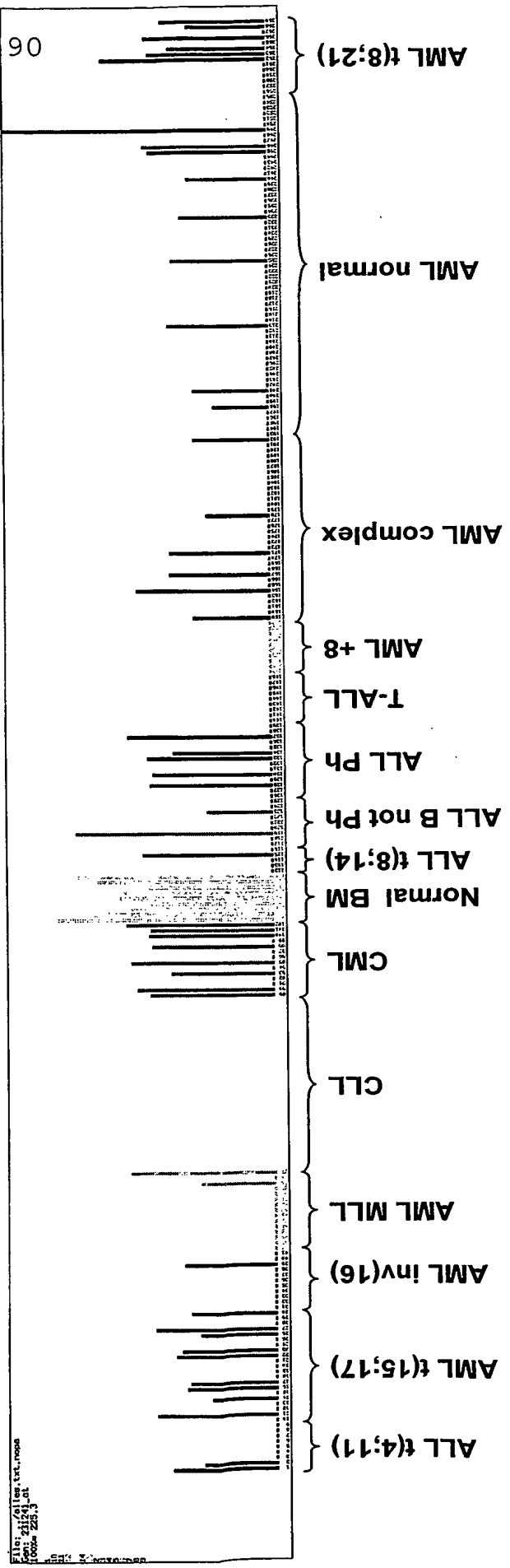


Figure 121

212531_at, LCN2, normal BM vs. AML normal

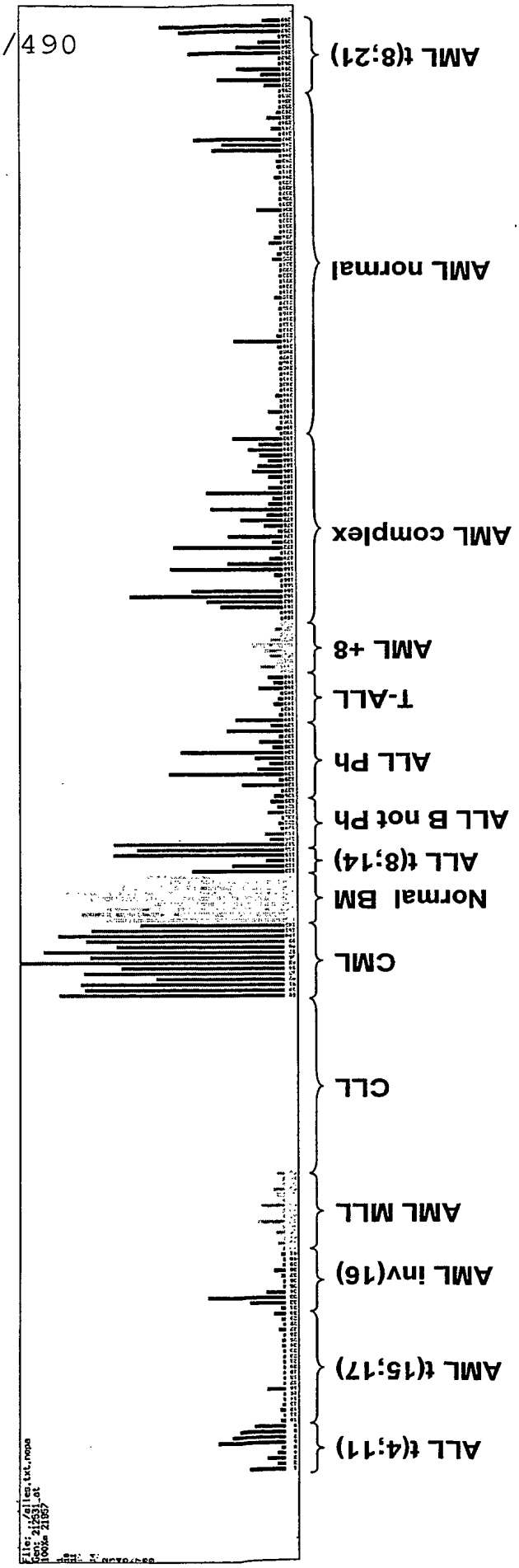


Figure 122

225792_at, normal BM vs. AML t(8;21)

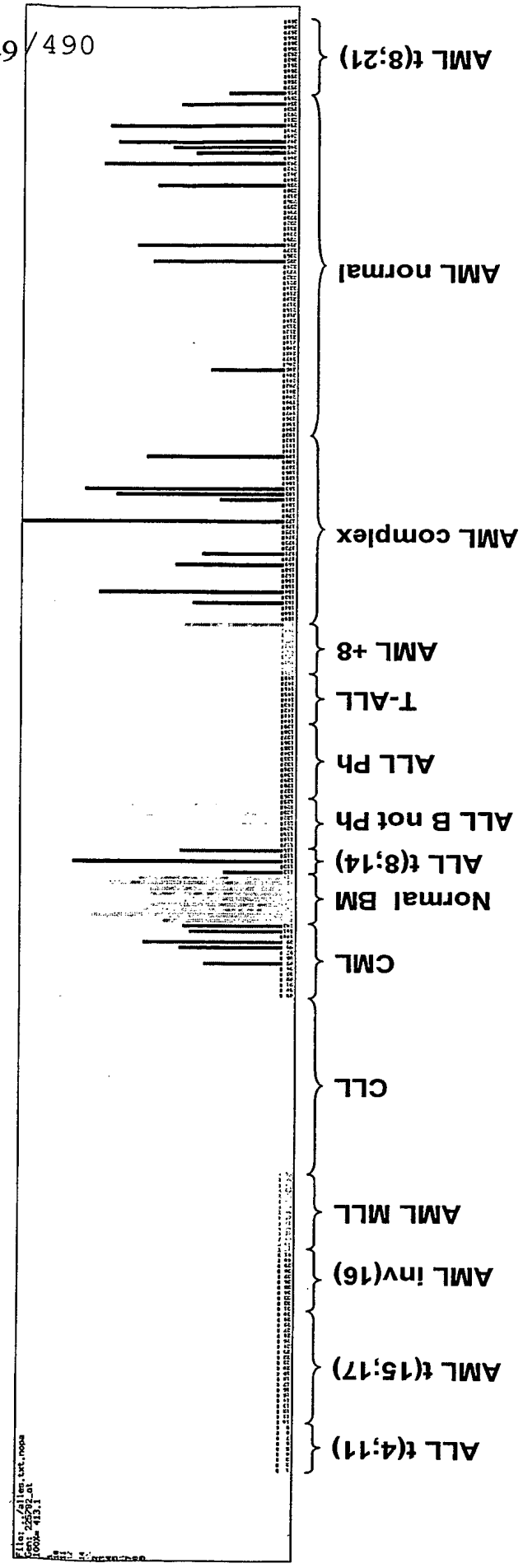


Figure 123

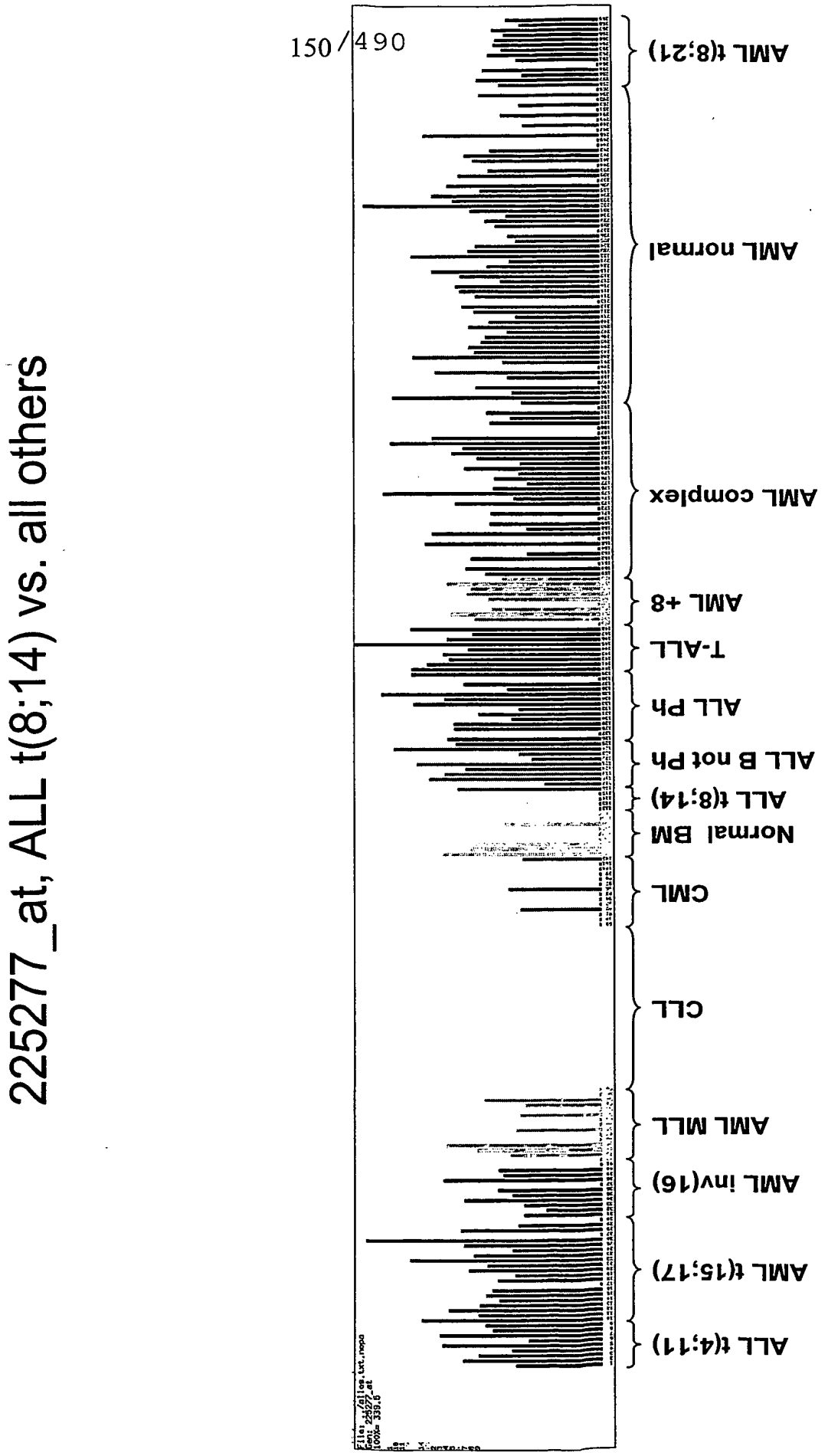

225277_at, ALL t(8;14) vs. all others
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 124

214558_at, GPR12, ALL t(8;14) vs. all others

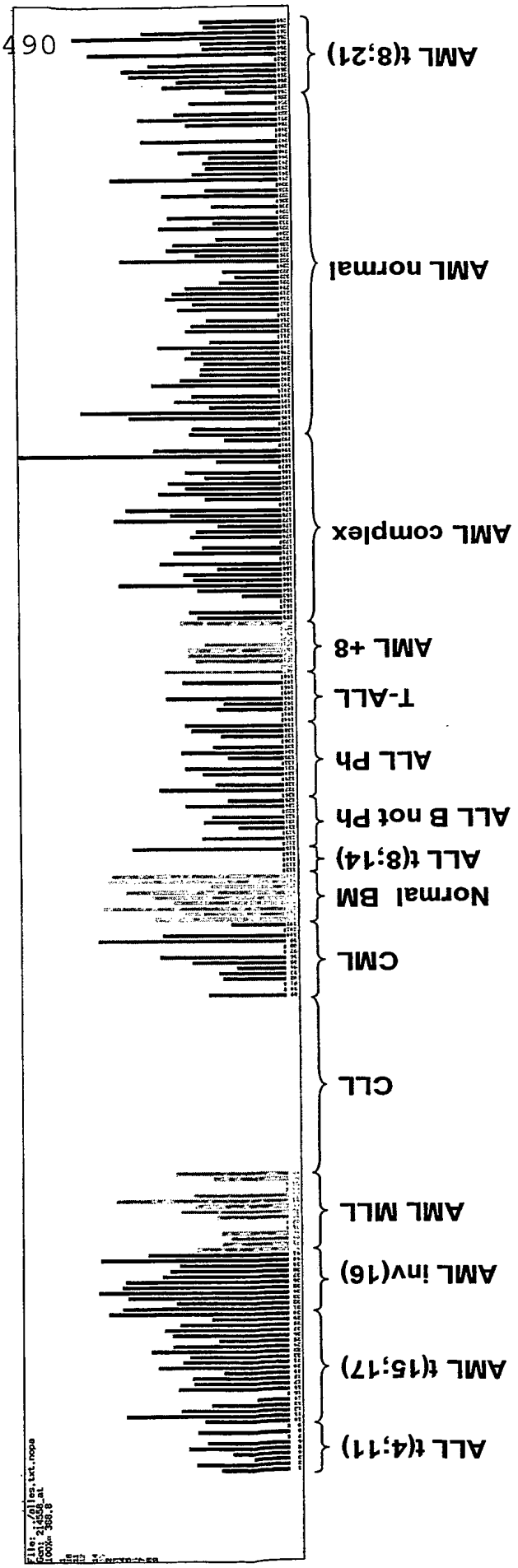


Figure 125

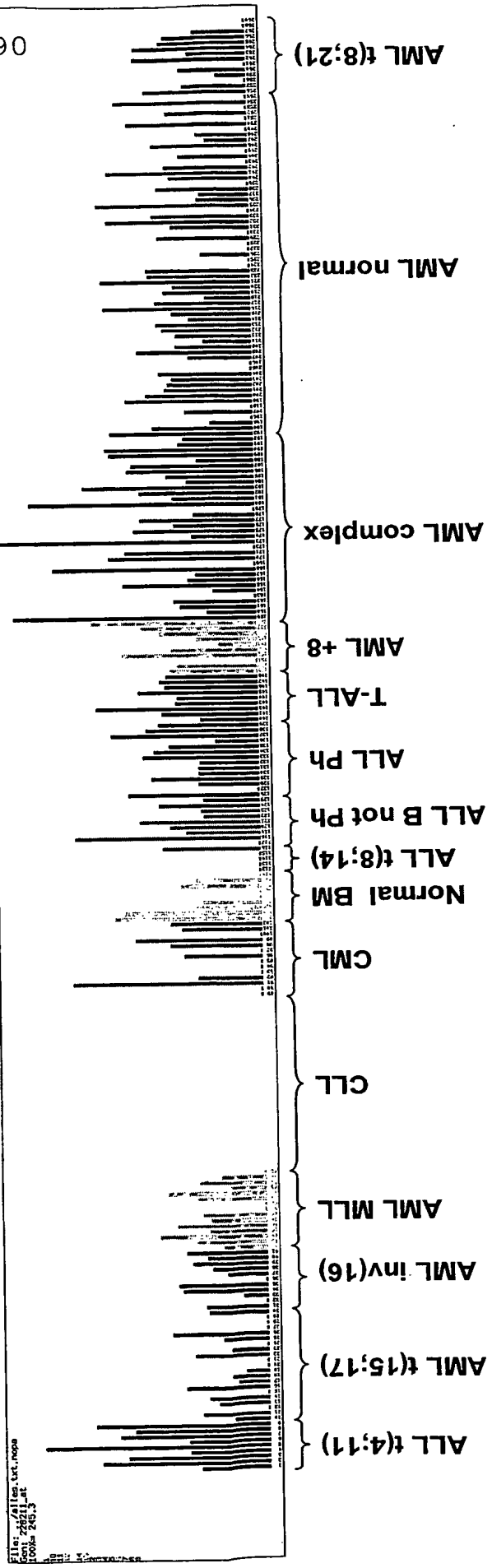

228211_at, ALL t(8;14) vs. all others
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 126

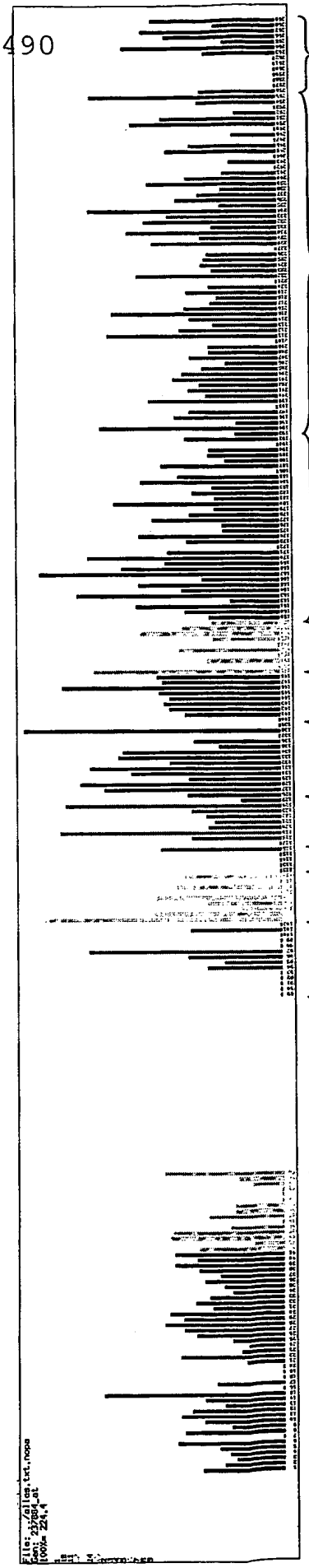

237864_at, ALL t(8;14) vs. all others
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 127

231567_s_at, TSP-NY, ALL t(8;14) vs. ALL B not Ph

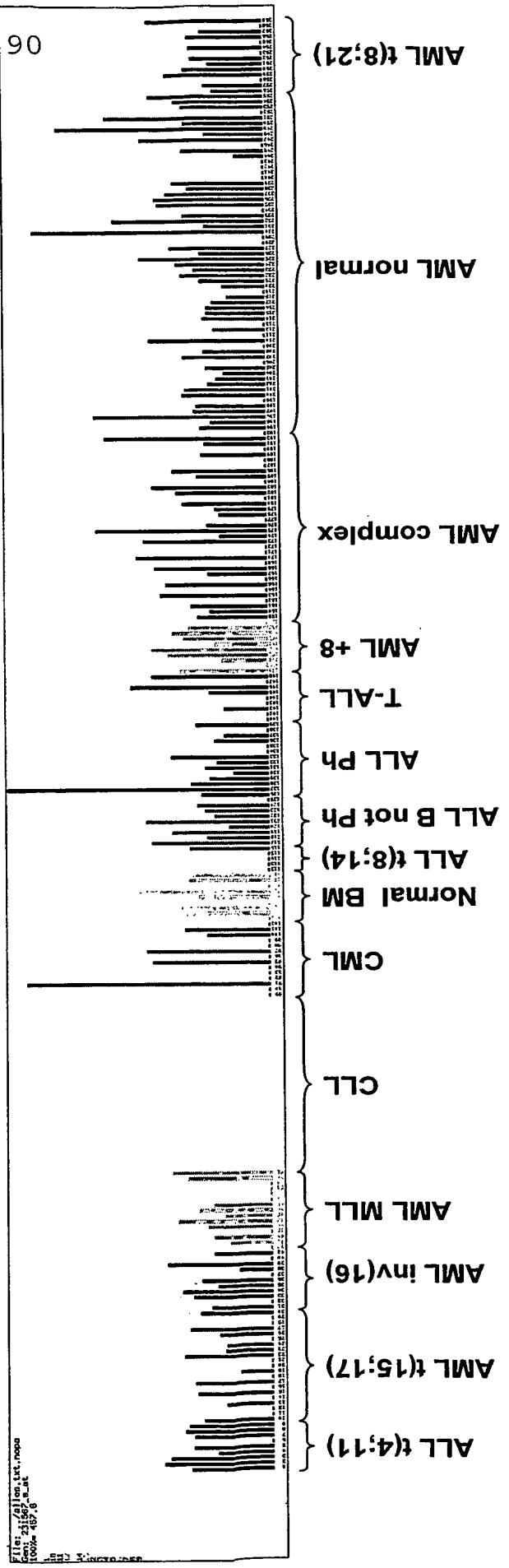


Figure 128

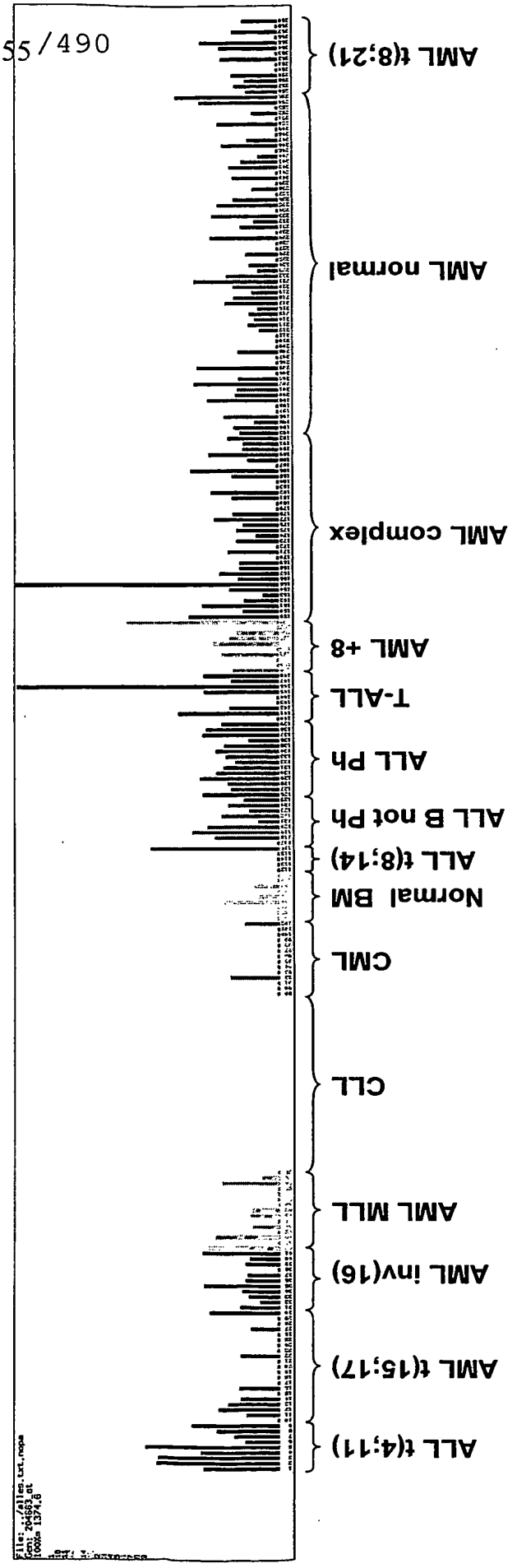

204663_at, ME3, ALL t(8;14) vs. ALL Ph
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 129

213772_s_at, GGA2, ALL t(8;14) vs. T-ALL

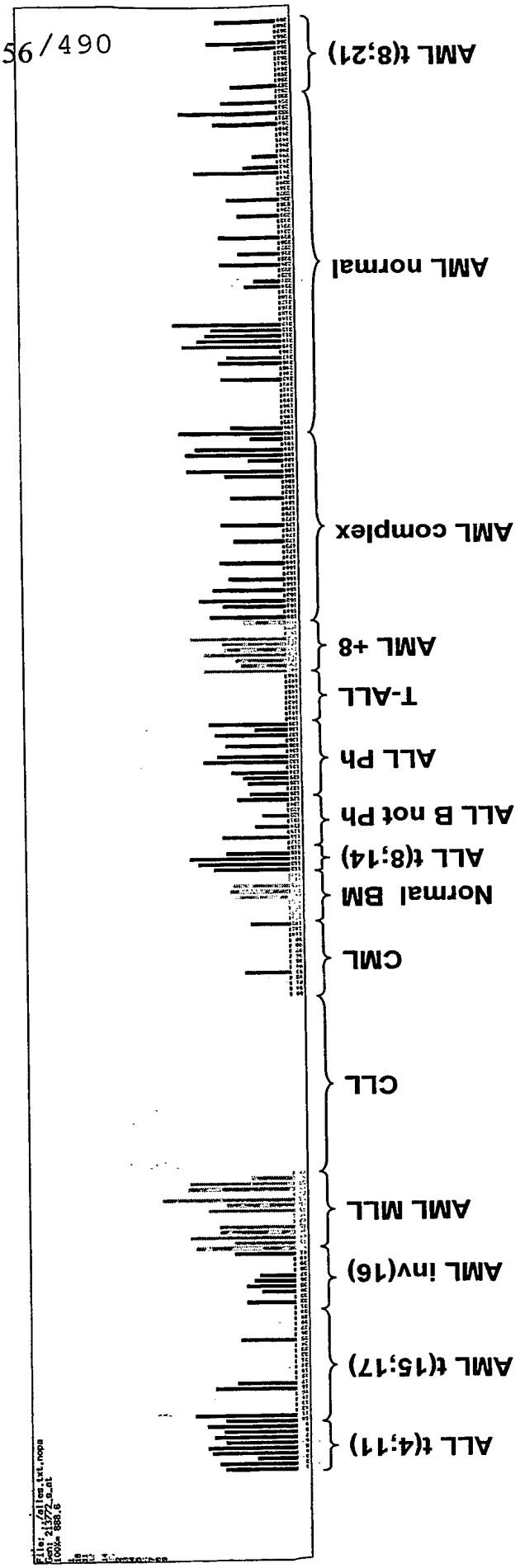


Figure 130

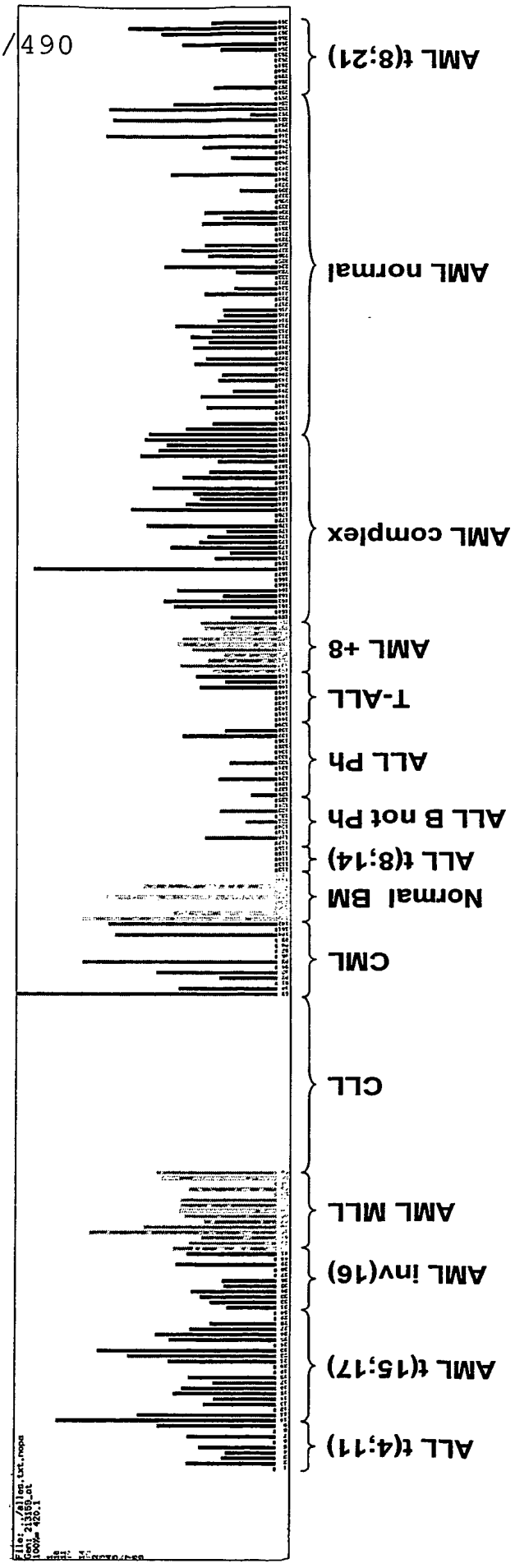

213159_at, KIAA0805, ALL t(8;14) vs. AML +8
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 131

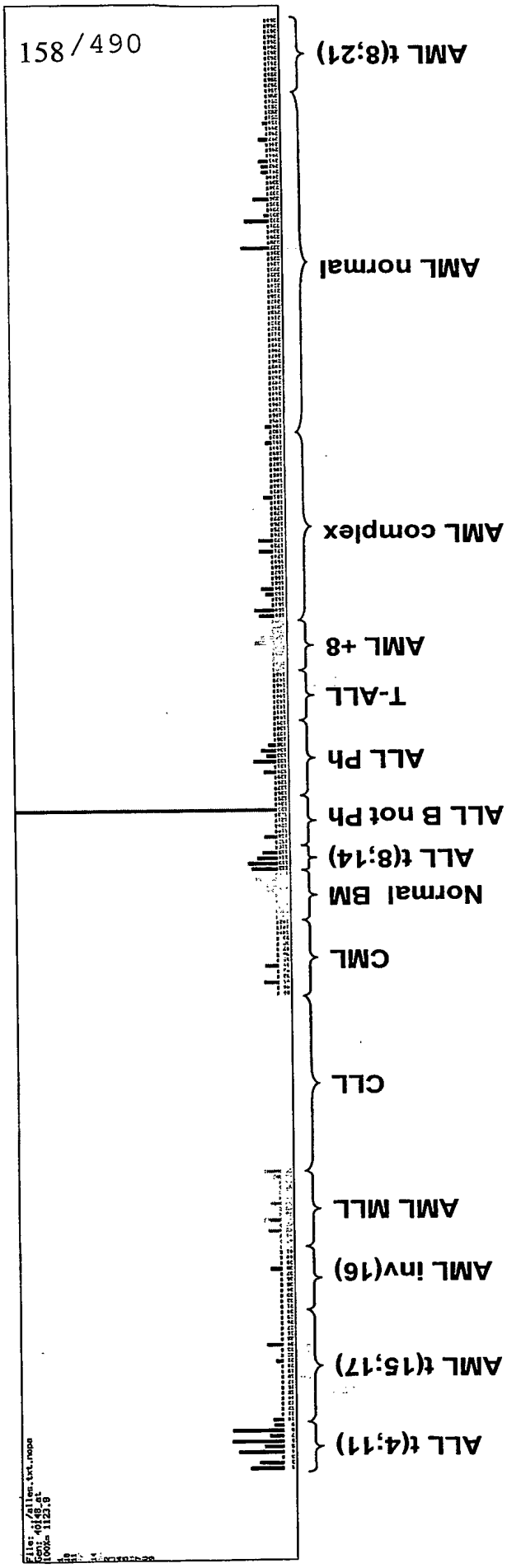

40148_at, APBB2, ALL t(8;14) vs. AML complex
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 132

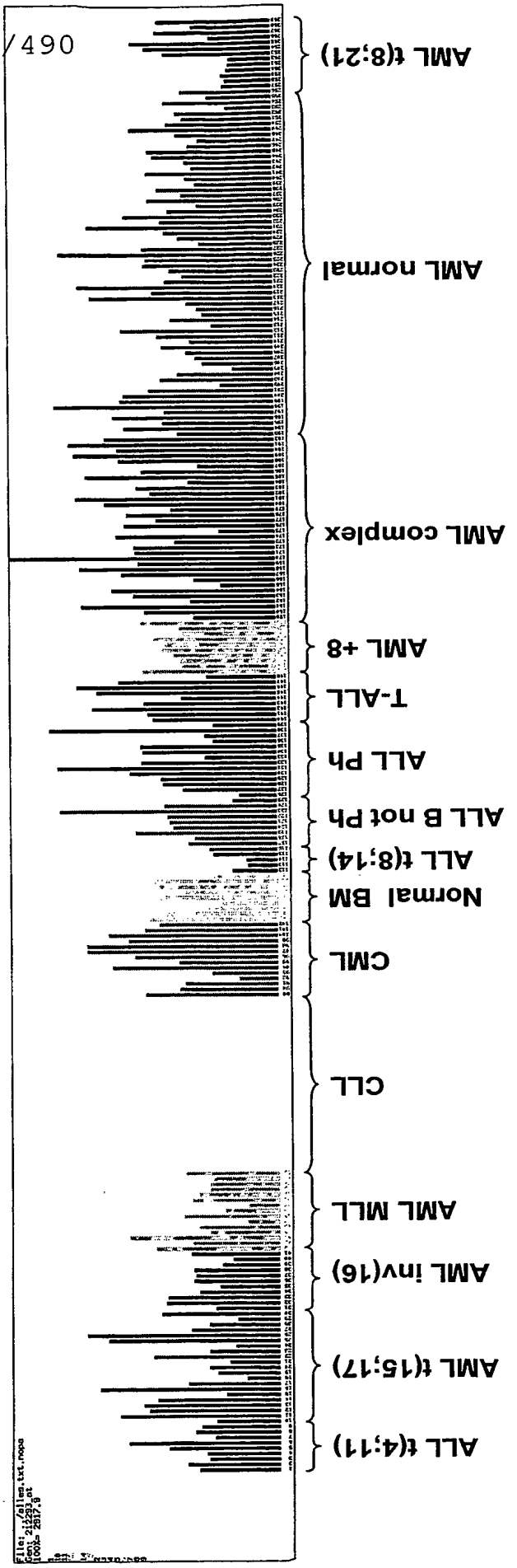

212293_at, KIAA0630, ALL t(8;14) vs. AML complex
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 133

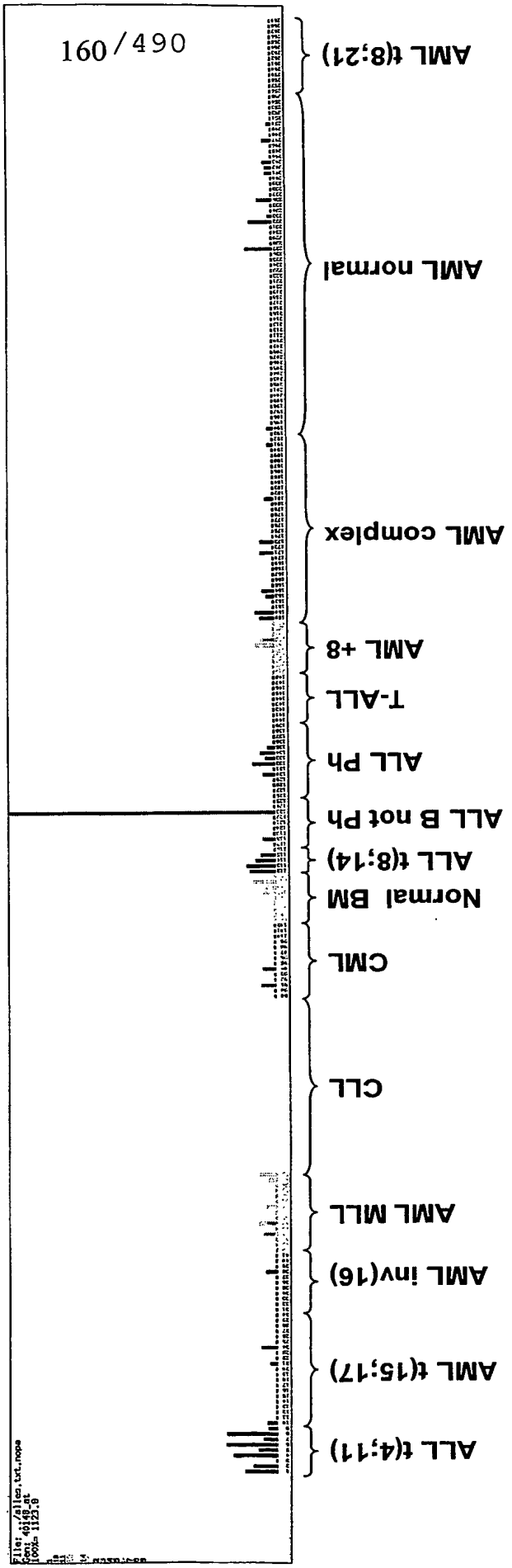

40148_at, APBB2, ALL t(8;14) vs. AML normal
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 134

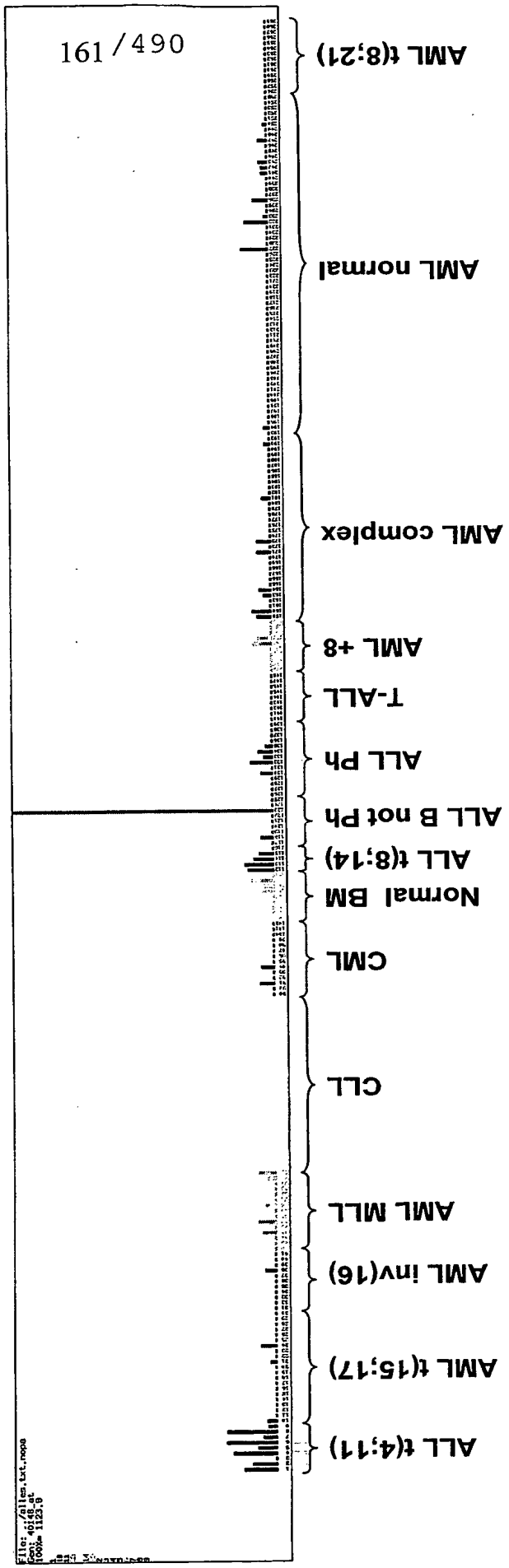

40148_at, APBB2, ALL t(8;14) vs. AML t(8;21)
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 135

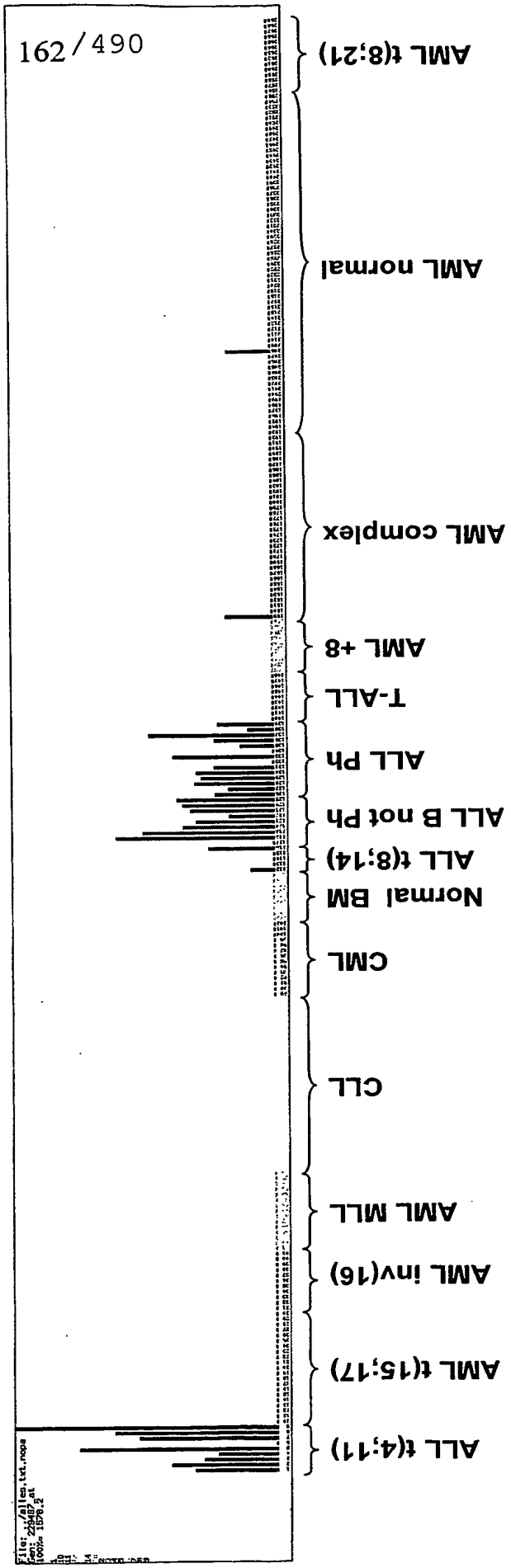

229487_at, ALL B nicht Ph vs. all others
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 136

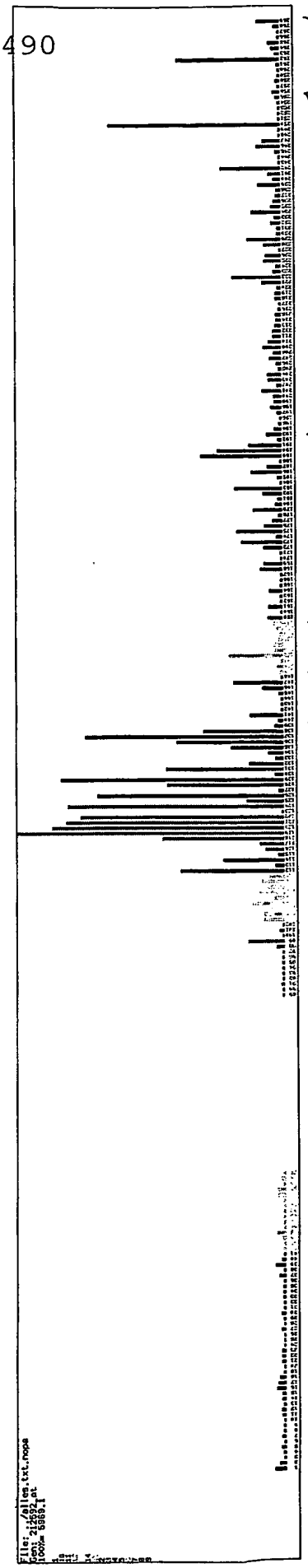

212592_at, ALL B nicht Ph vs. all others
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 137

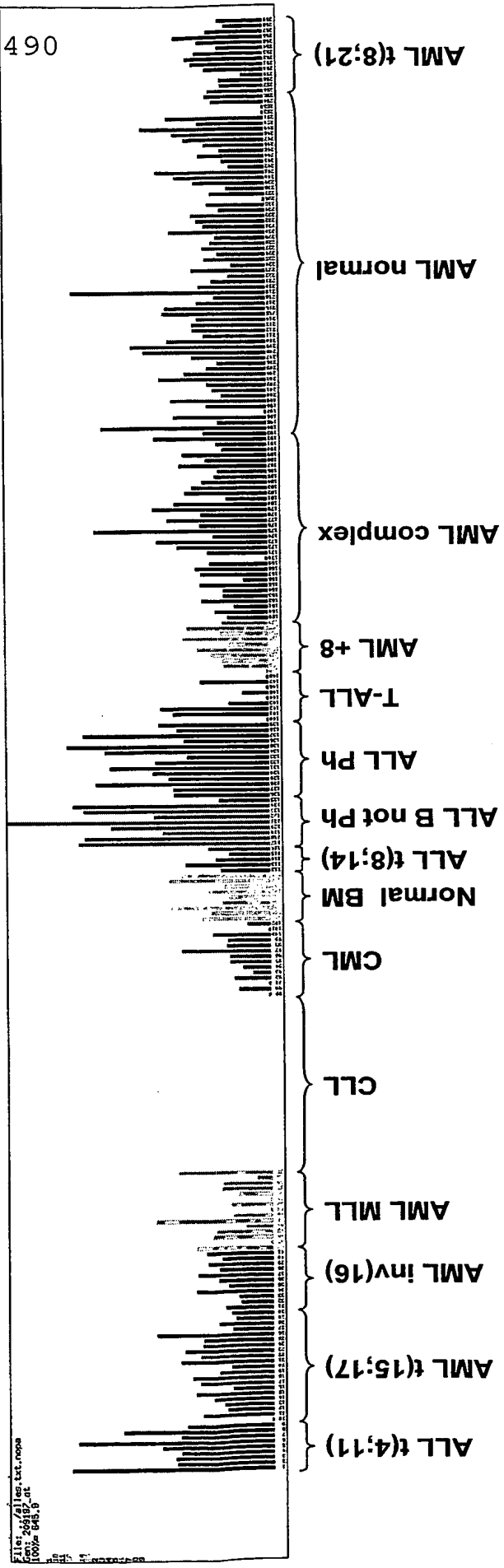

209197_at, KIAA0080, ALL B not Ph vs. all others
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 138

223469_at, MGC10812, ALL B not Ph vs. all others

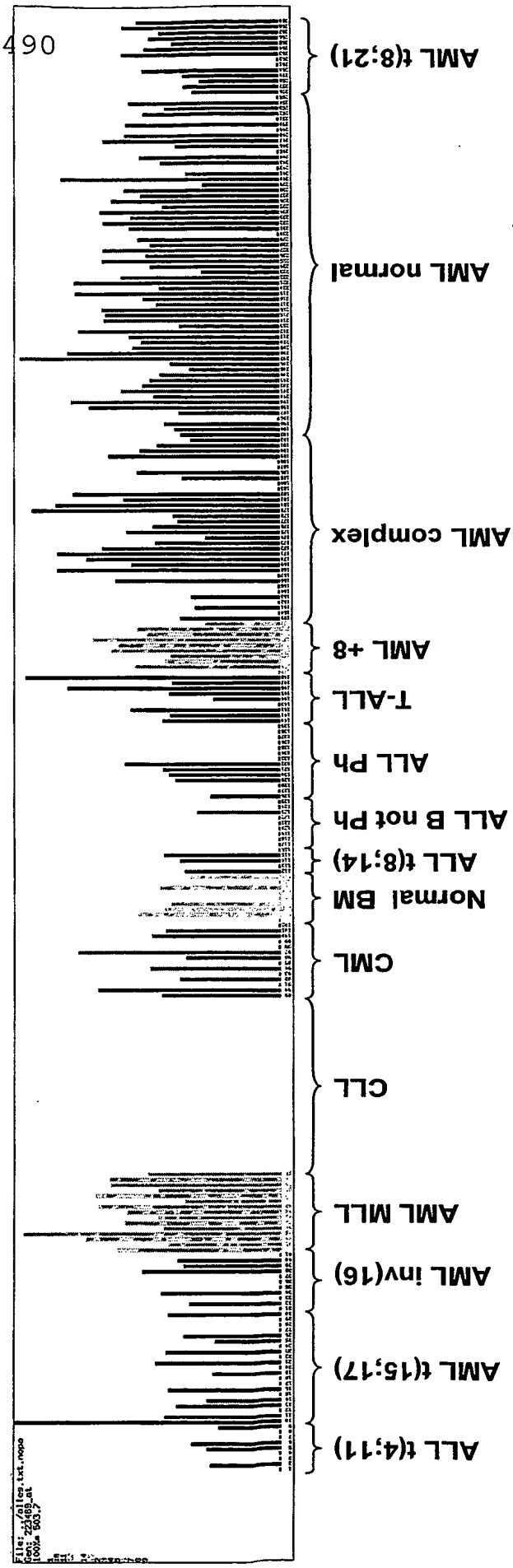


Figure 139

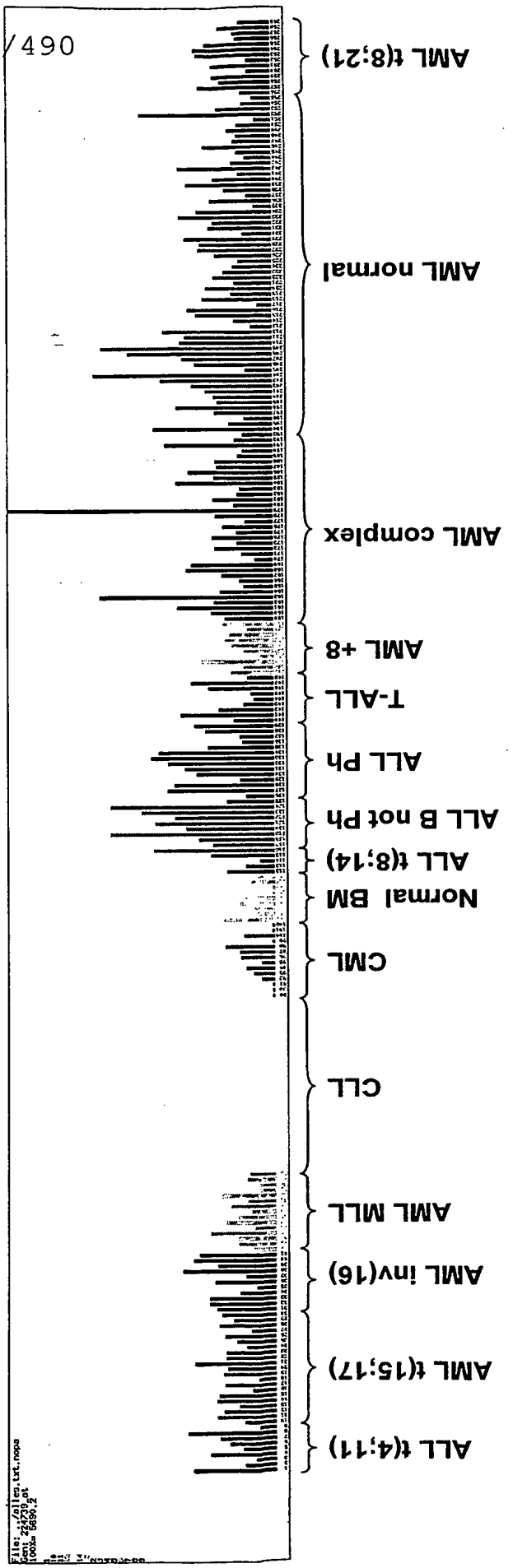

224739_at, MG61, ALL B not Ph vs. all others
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 140

218351_at, FLJ20502, ALL B not Ph vs. all others

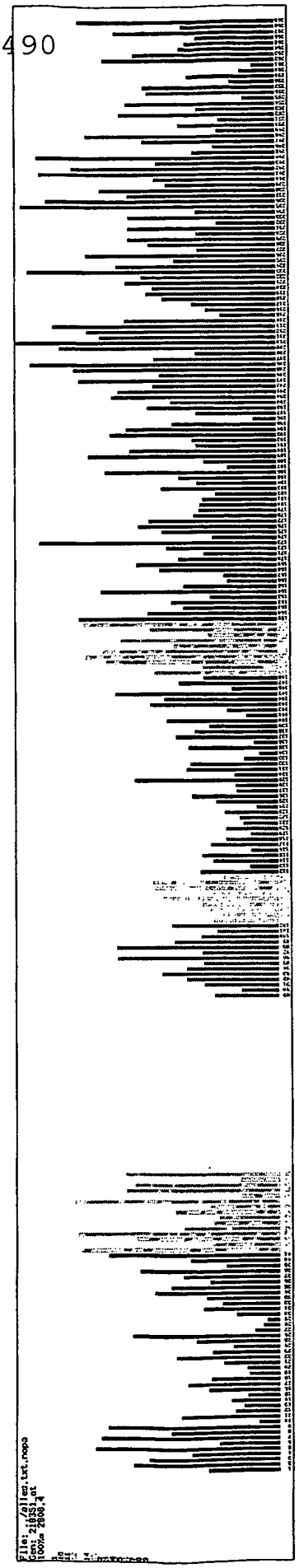


Figure 141

220744_s_at, WDR10, ALL B not Ph vs. all others

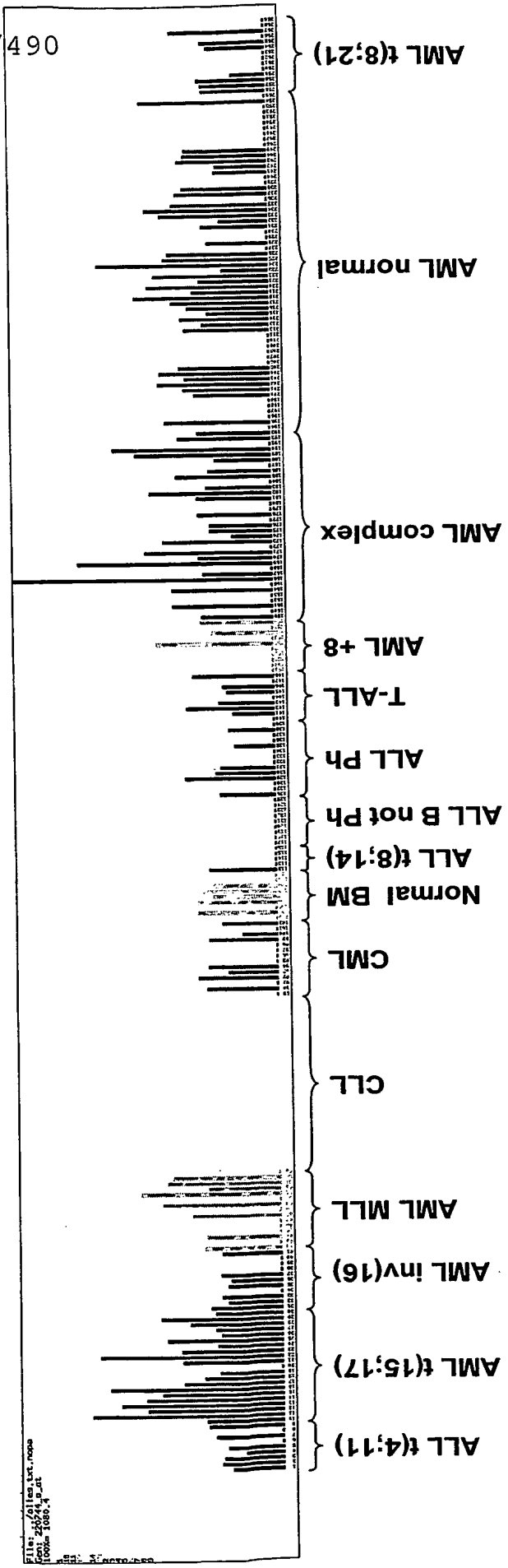


Figure 142

213582_at, ATP11A, ALL B not Ph vs. all others

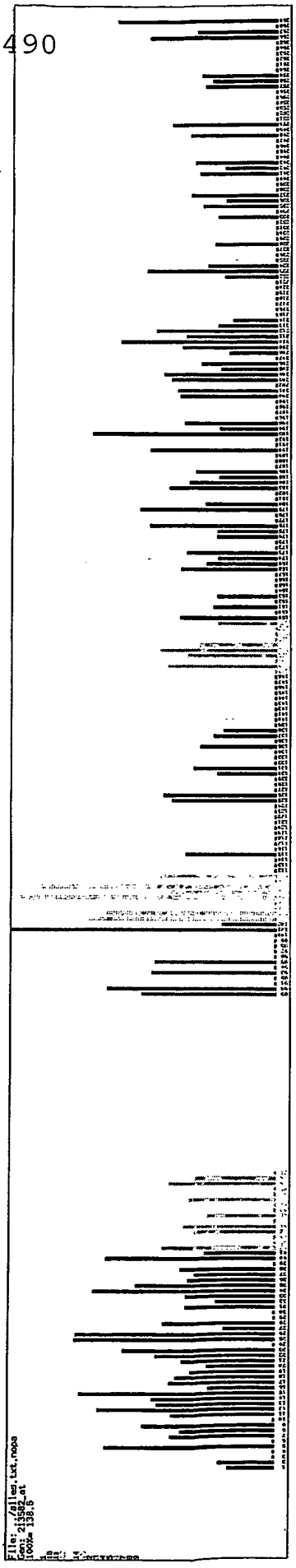


Figure 143

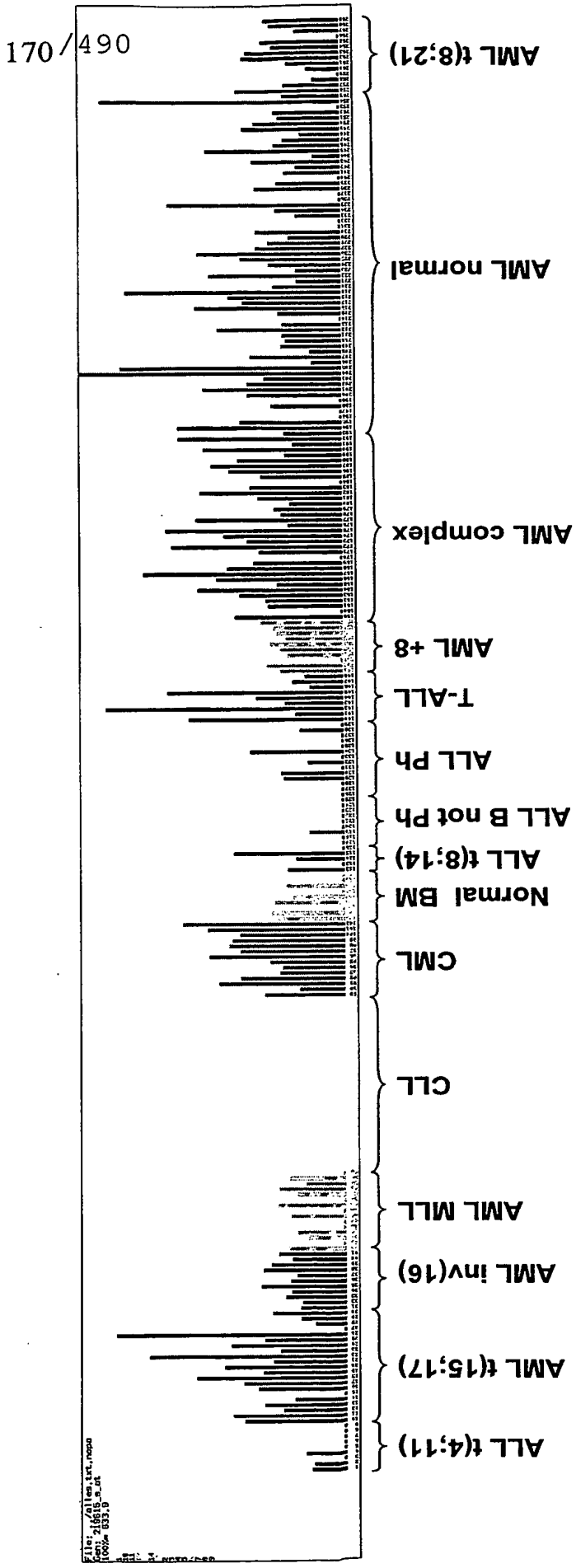

219615_s_at, KCNK5, ALL B not Ph vs. all others
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 144

202123_s_at, ABL1, ALL B not Ph vs. ALL Ph

Figure 145

242292_at, ALL B not Ph vs. T-ALL

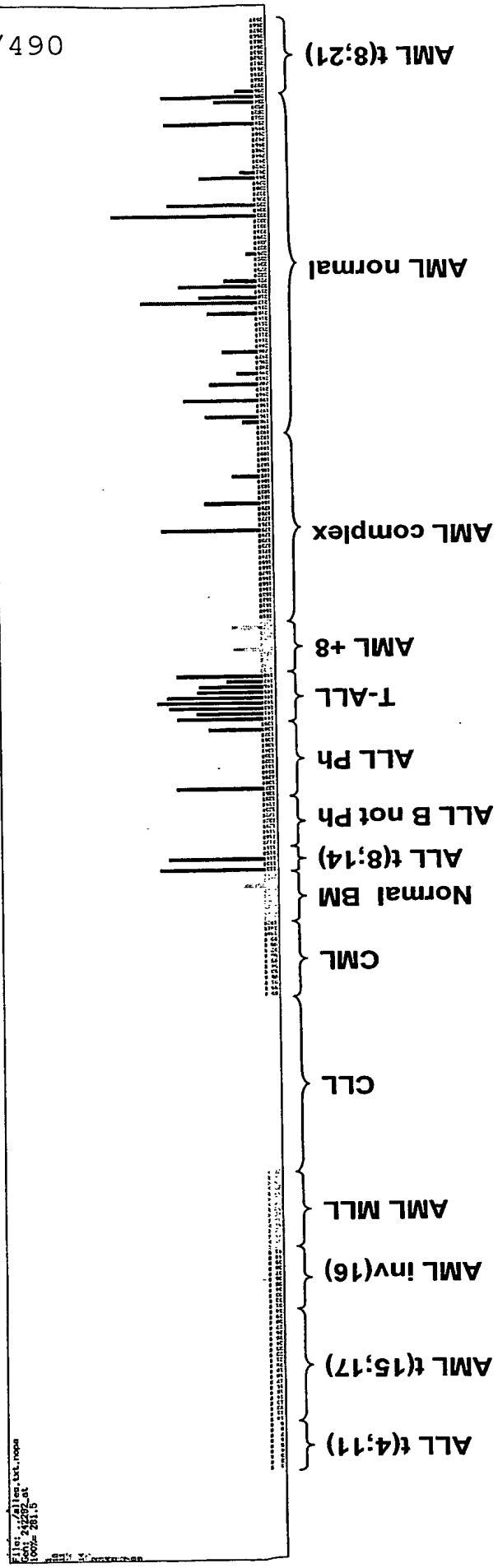


Figure 146

208248_x_at, APLP2, ALL B not Ph vs. AML +8

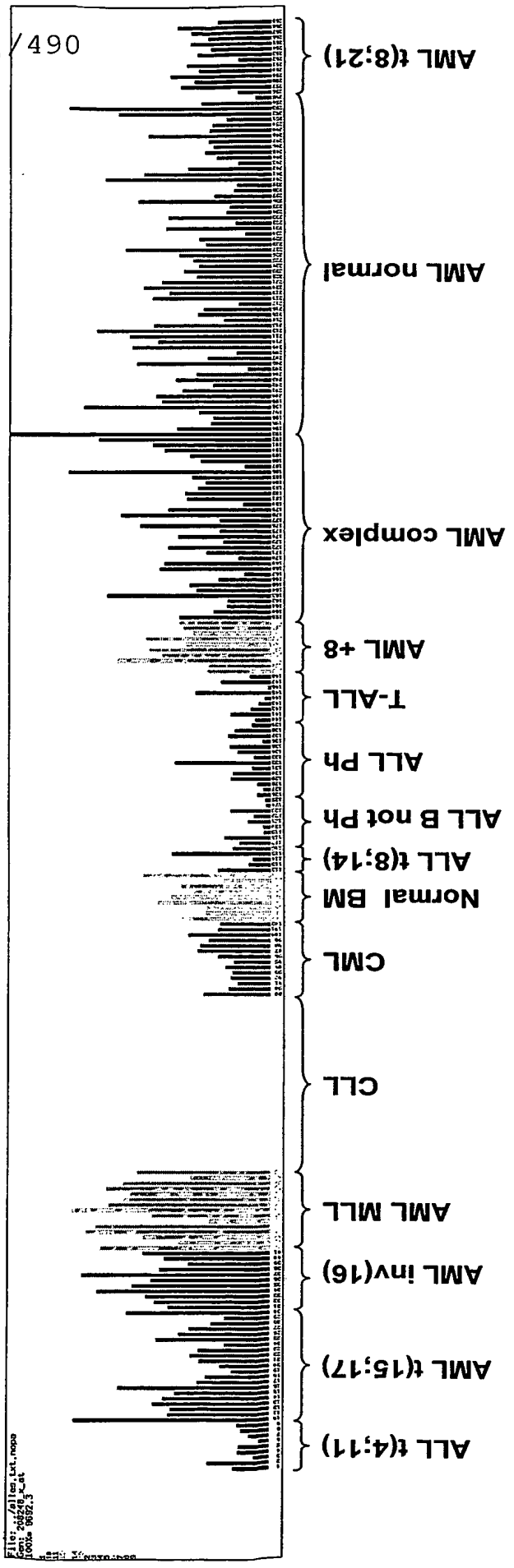


Figure 147

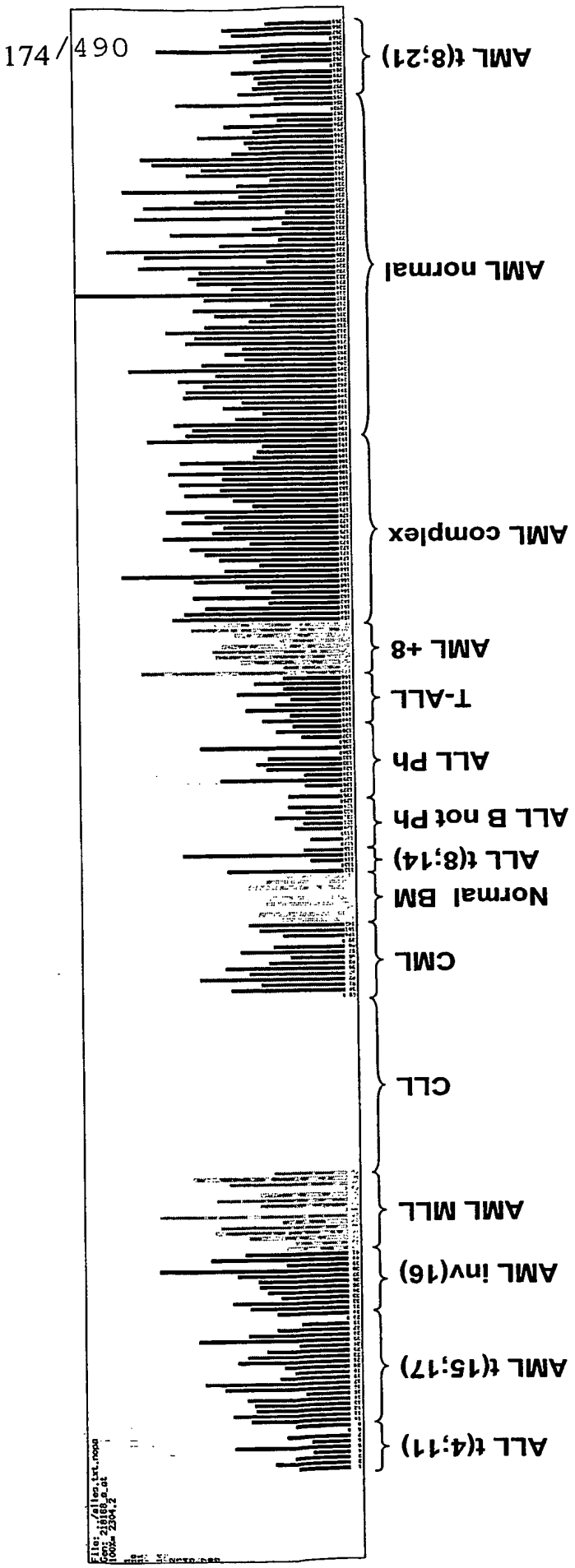

218168_s_at, CABC1, ALL B not Ph vs. AML complex
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 148

221969_at, PAX5, ALL B not Ph vs. AML normal

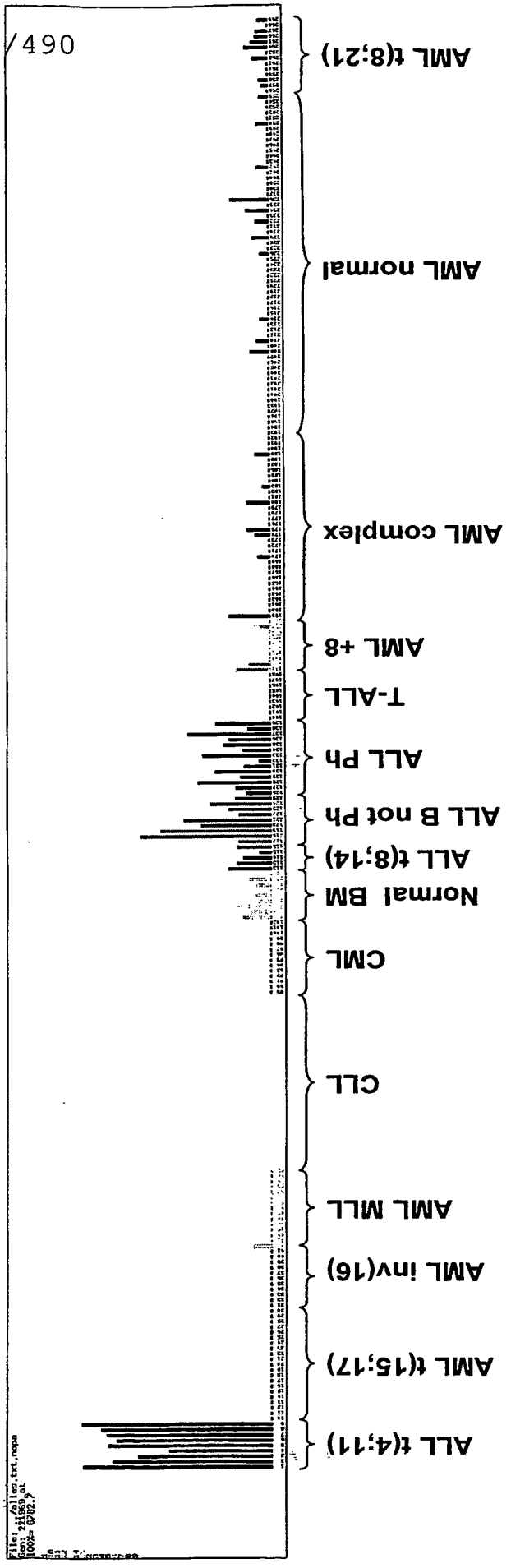


Figure 149

202382_s_at, GNPI, ALL B not Ph vs. AML t(8;21)

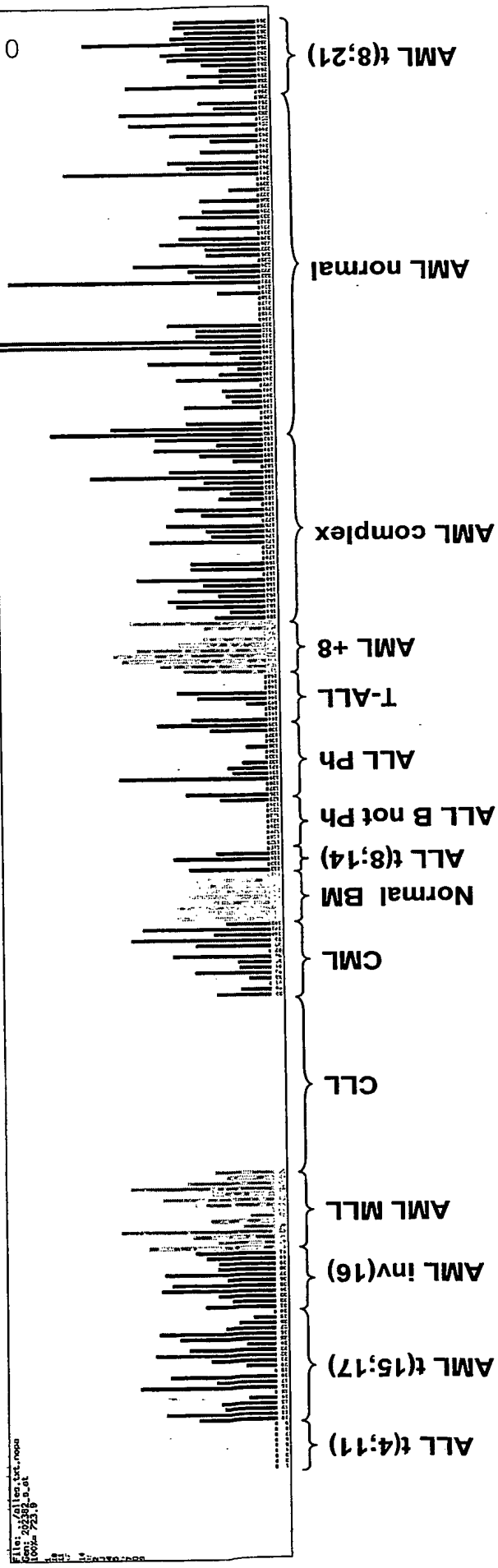


Figure 150

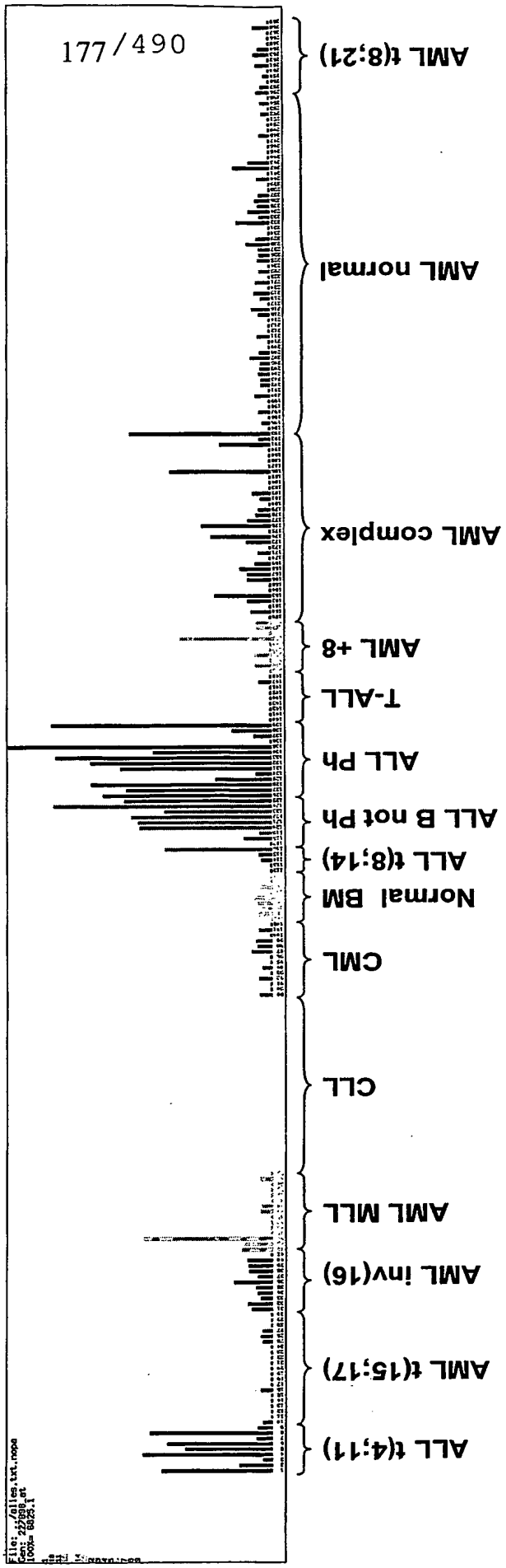

227998_at, MGC17528, ALL Ph vs. all others
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 151

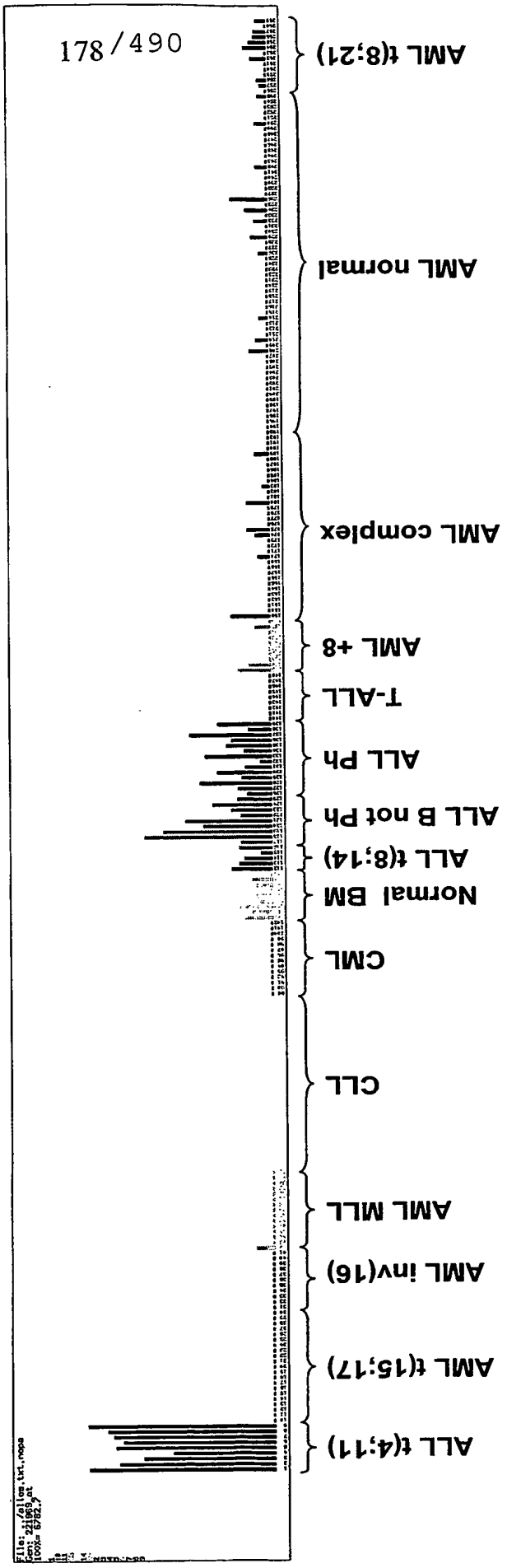

221969_at, PAX5, ALL Ph vs. T-ALL
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 152

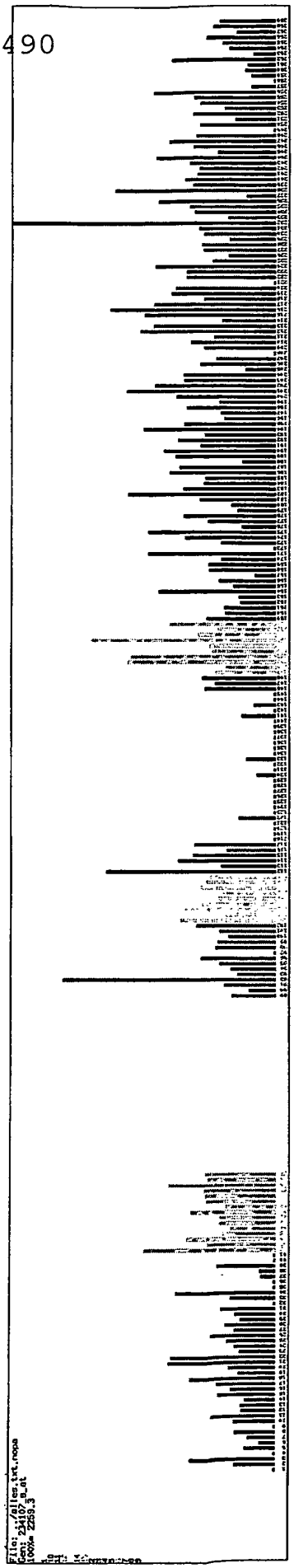

234107_s_at, ALL Ph vs. AML +8
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 153

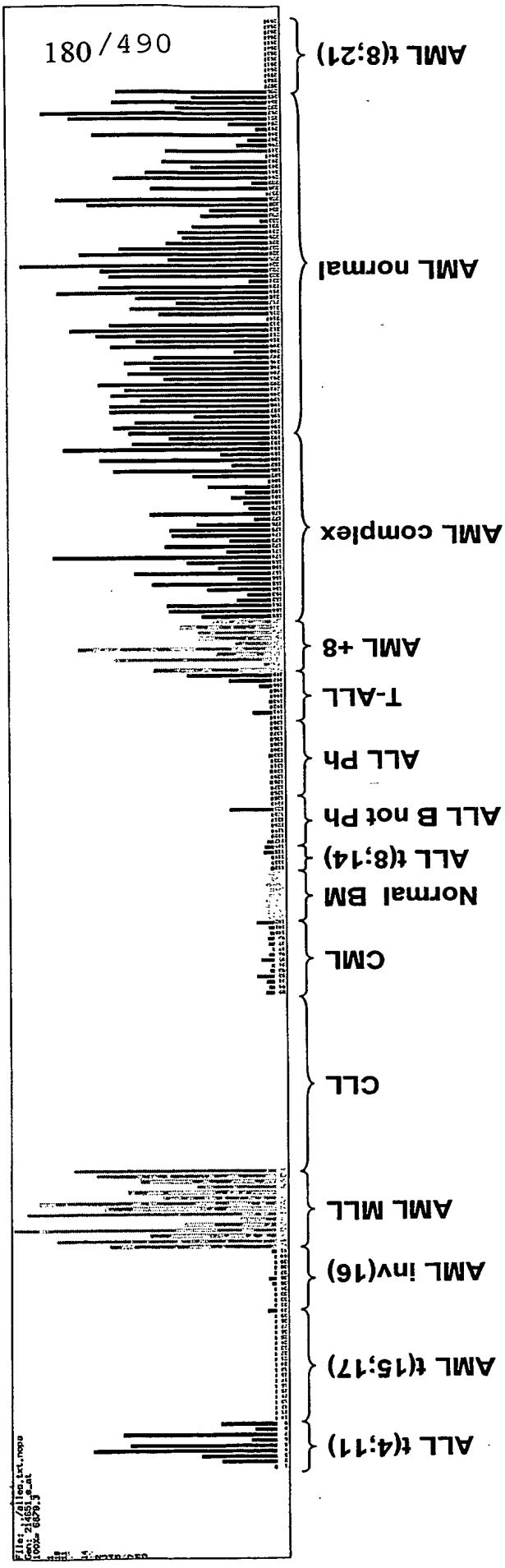

214641_s_at, HOXA9, ALL Ph vs. AML complex
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 154

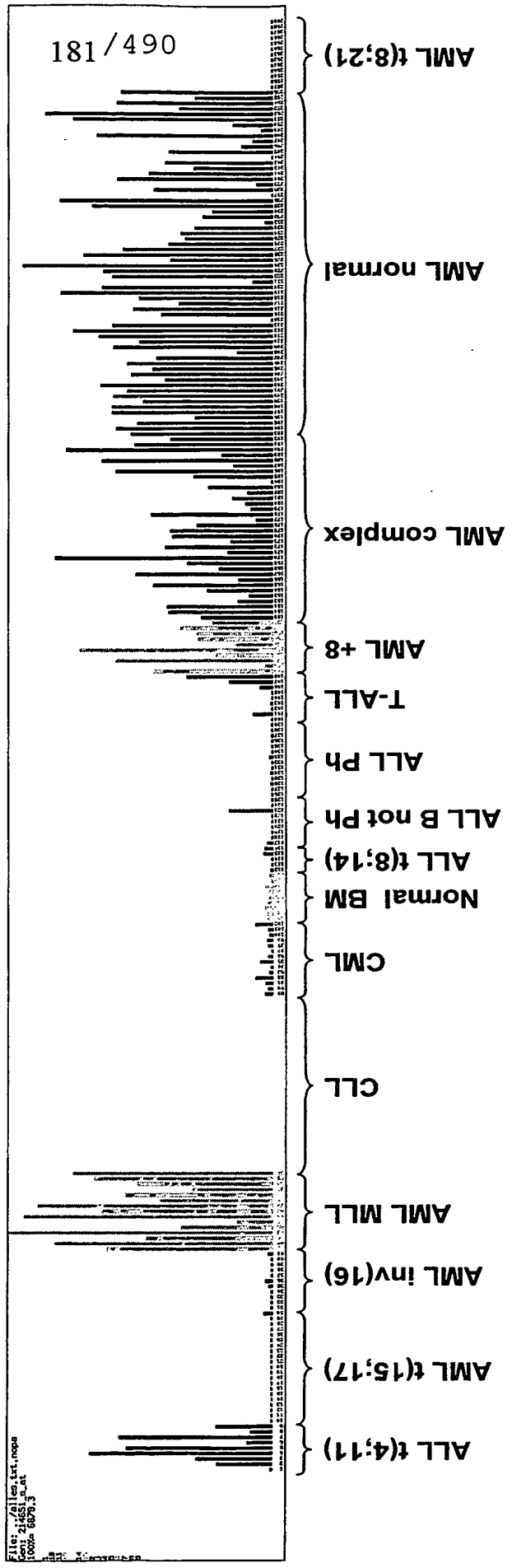

214641_s_at, HOXA9, ALL Ph vs. AML normal
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 155

212013_at, D2S448, ALL Ph vs. AML normal

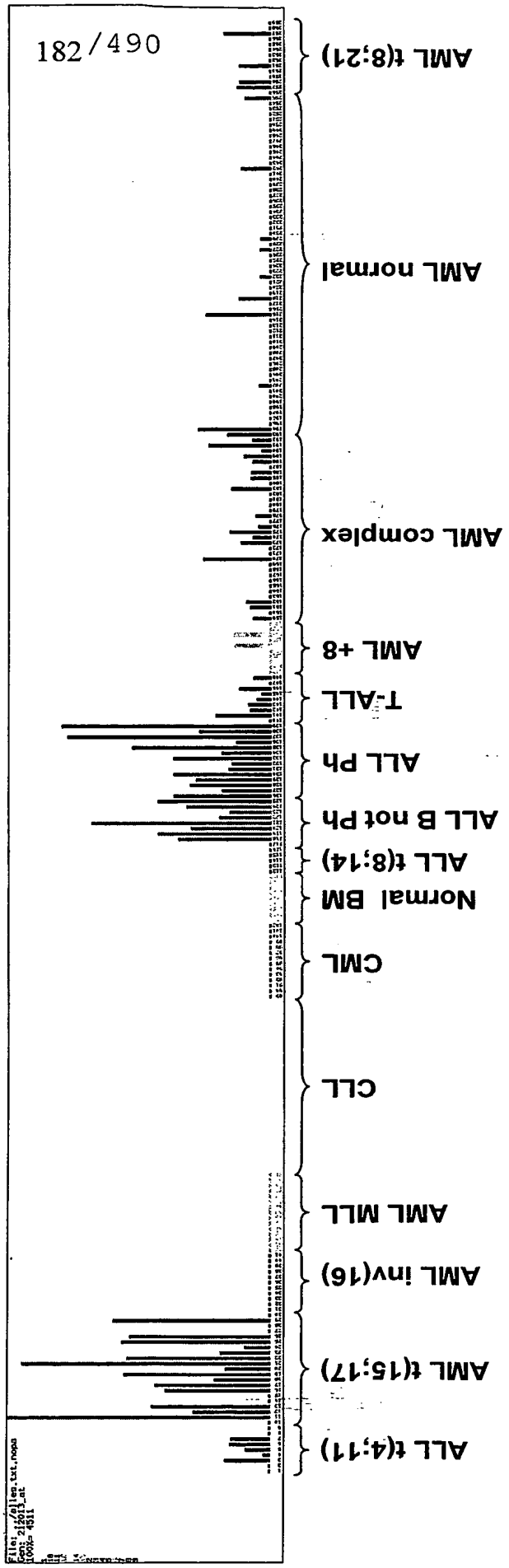


Figure 156

228827_at, ALL Ph vs. AML t(8;21)

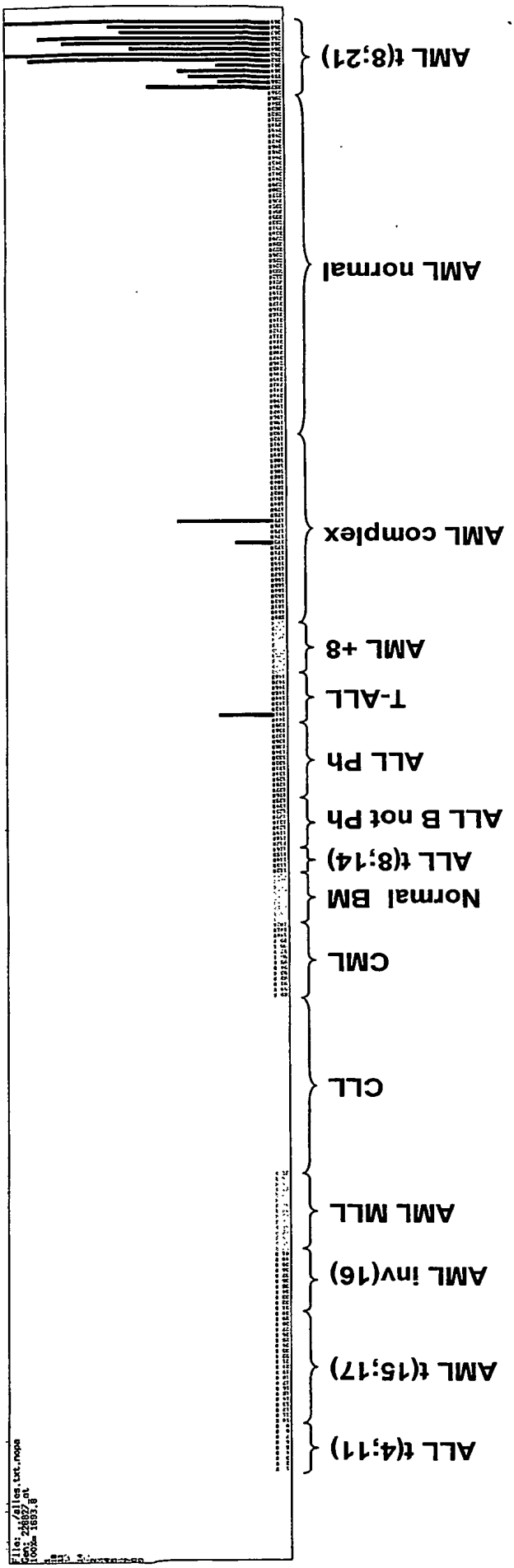


Figure 157

209604_s_at, GATA3, T-ALL vs. all others

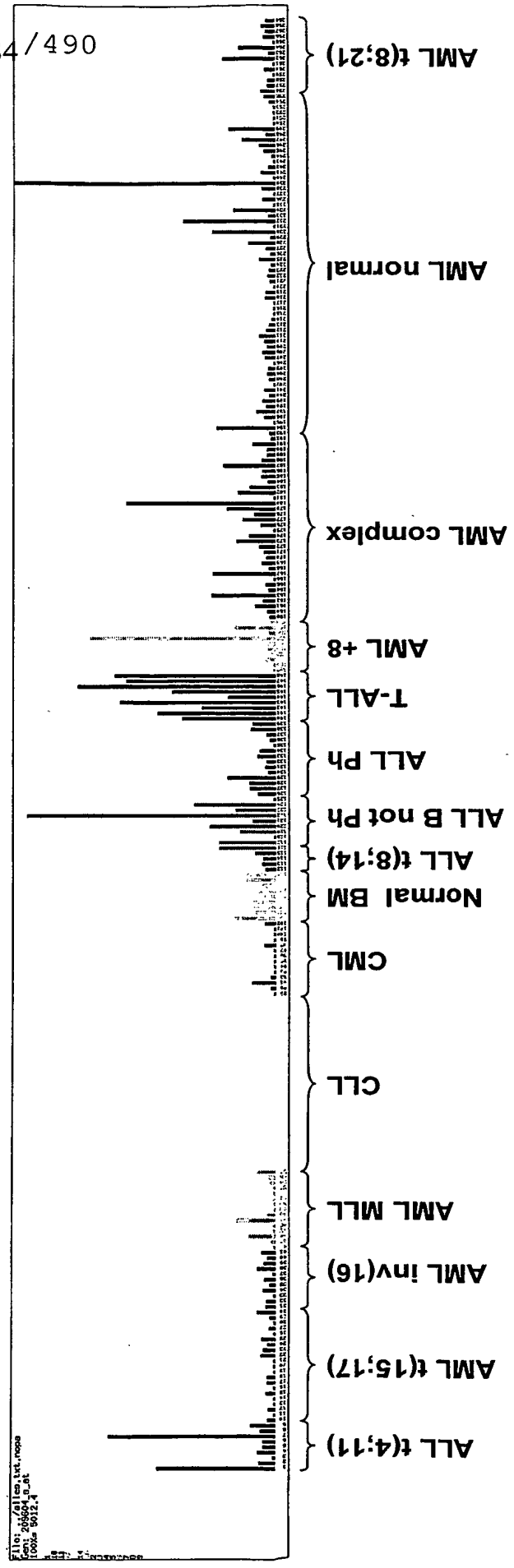


Figure 158

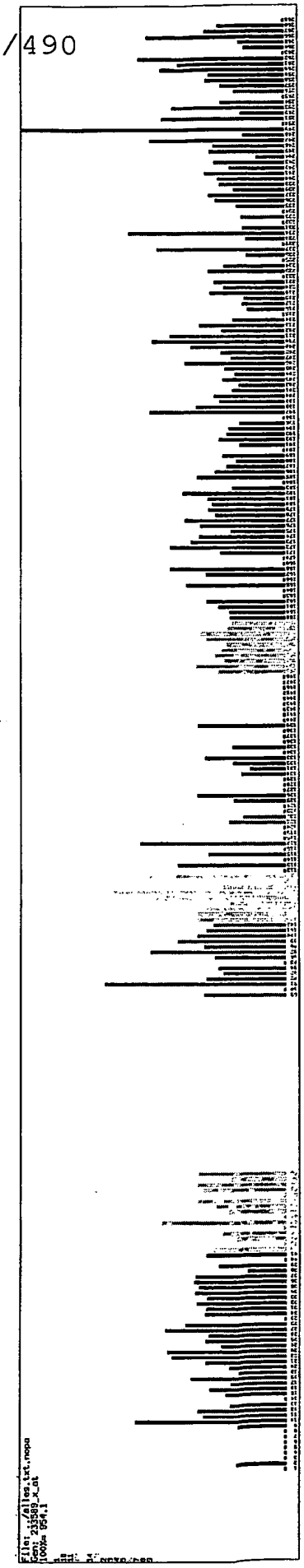

233589_x_at, T-ALL vs. all others
ALL t(4;11)
AML t(15;17)
AML inv(16)
AML MLL
CLL
CML
Normal BM
ALL t(8;14)
ALL B not Ph
ALL Ph
T-ALL
AML +8
AML complex
AML normal
AML t(8;21)

Figure 159

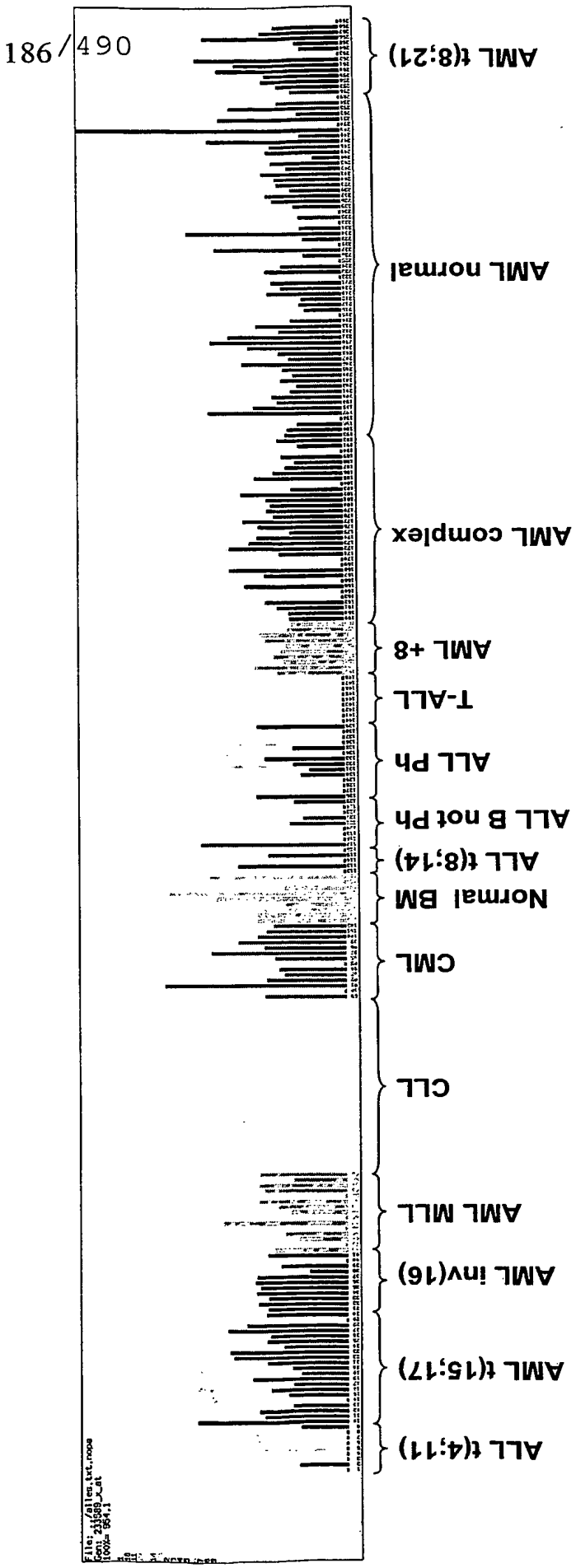

233589_x_at, T-ALL vs. AML +8
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 160

207543_s_at, P4HA1, T-ALL vs. AML complex

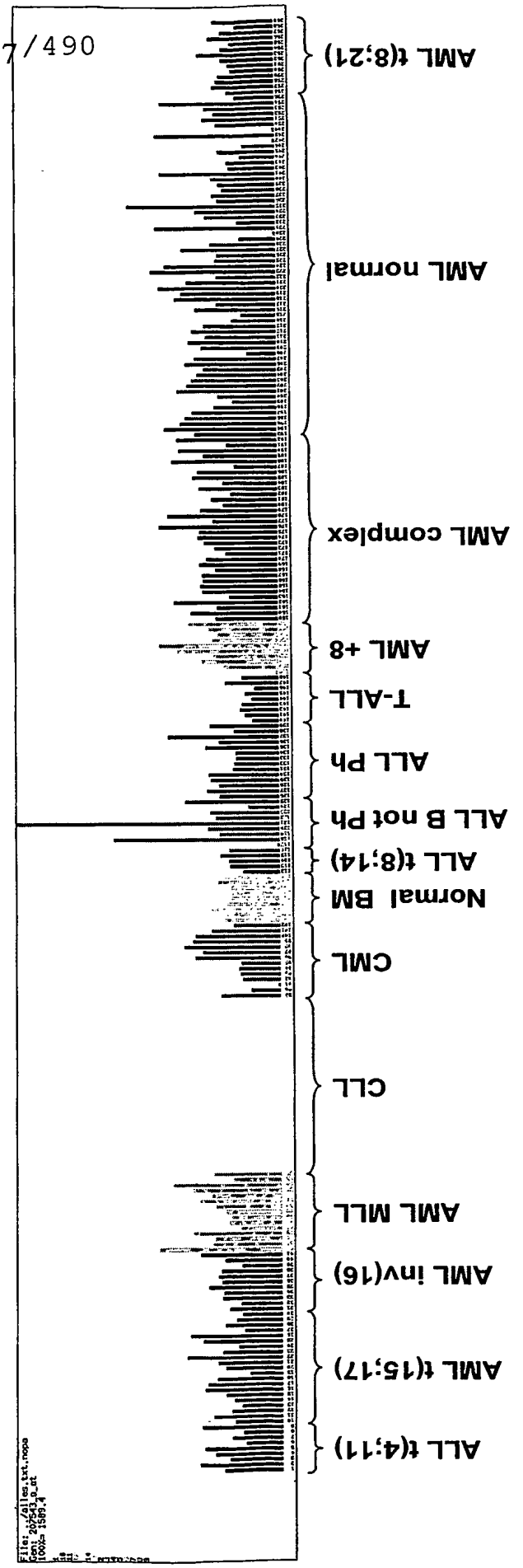


Figure 161

230292_at, T-ALL vs. AML normal

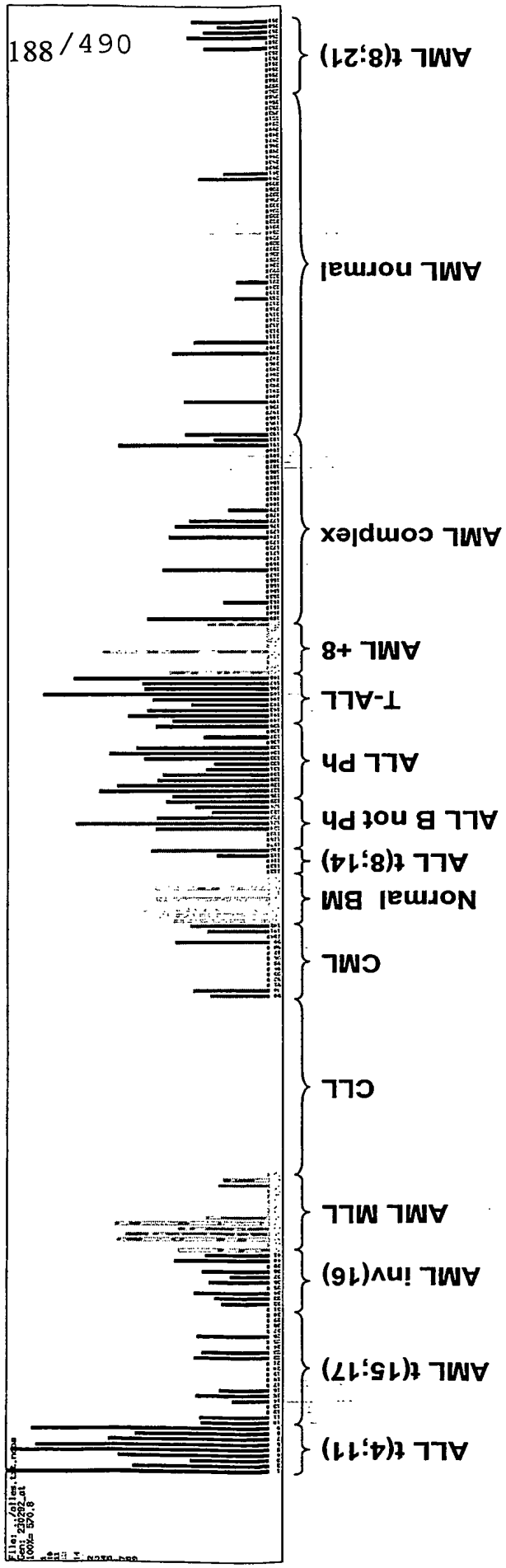


Figure 162

202479_s_at, GS3955, T-ALL vs. AML normal

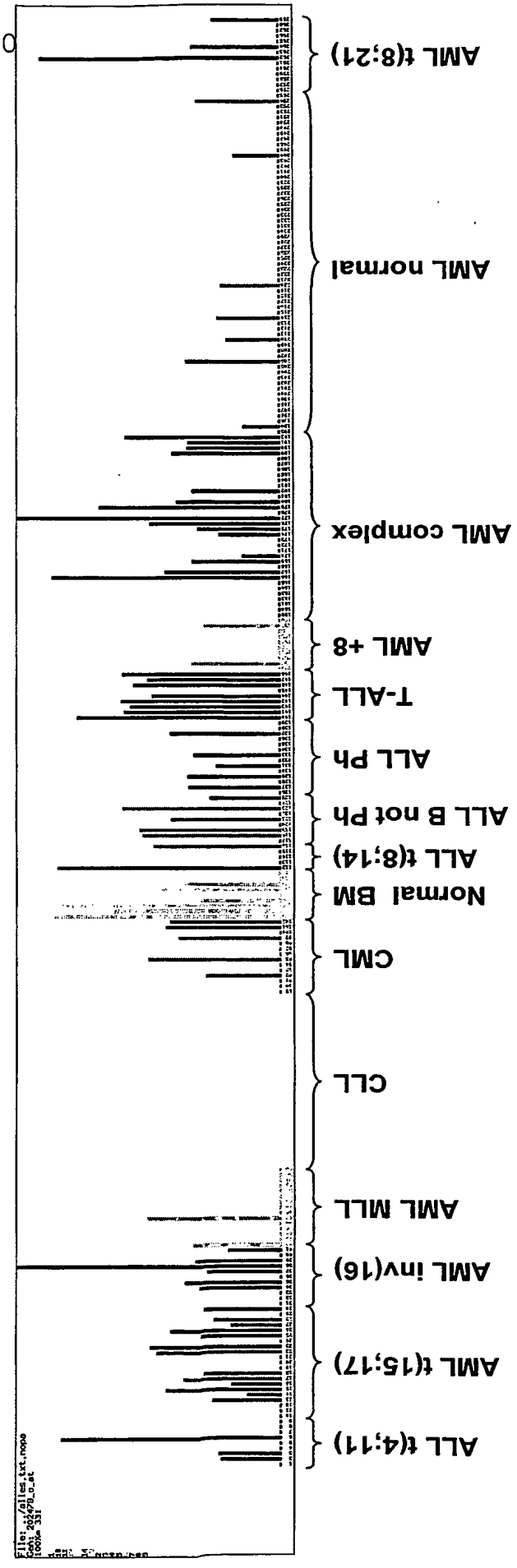


Figure 163

242292_at, T-ALL vs. AML t(8;21)

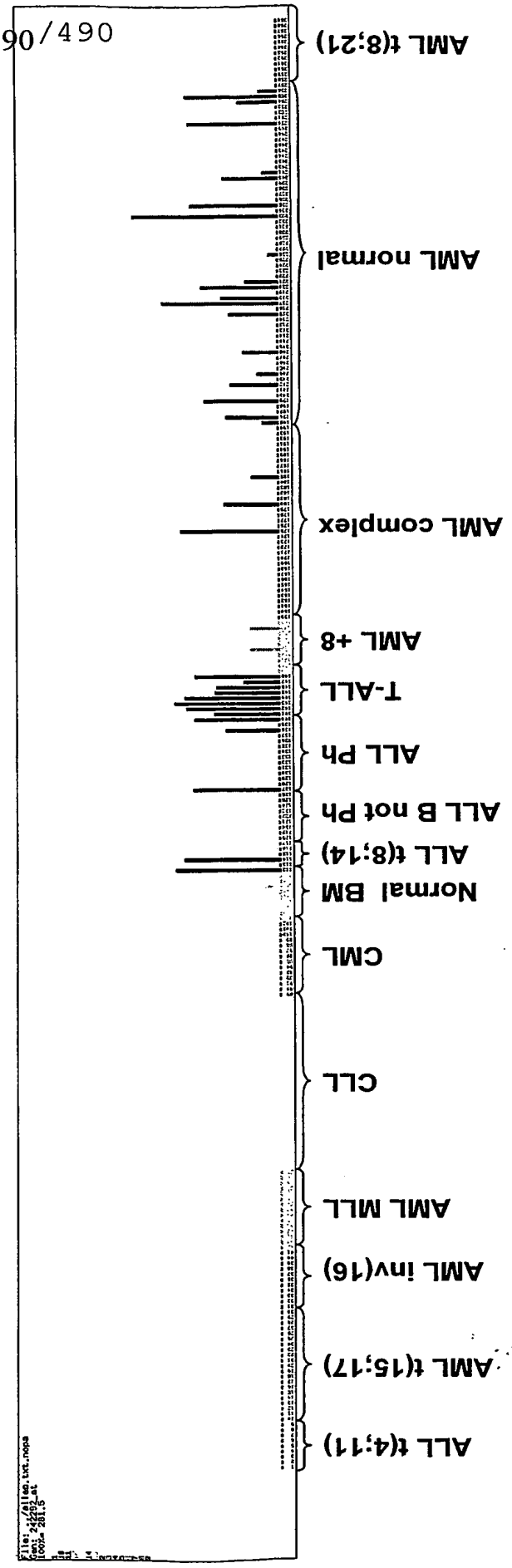


Figure 164

226165_at, E2F5, AML +8 vs. all others

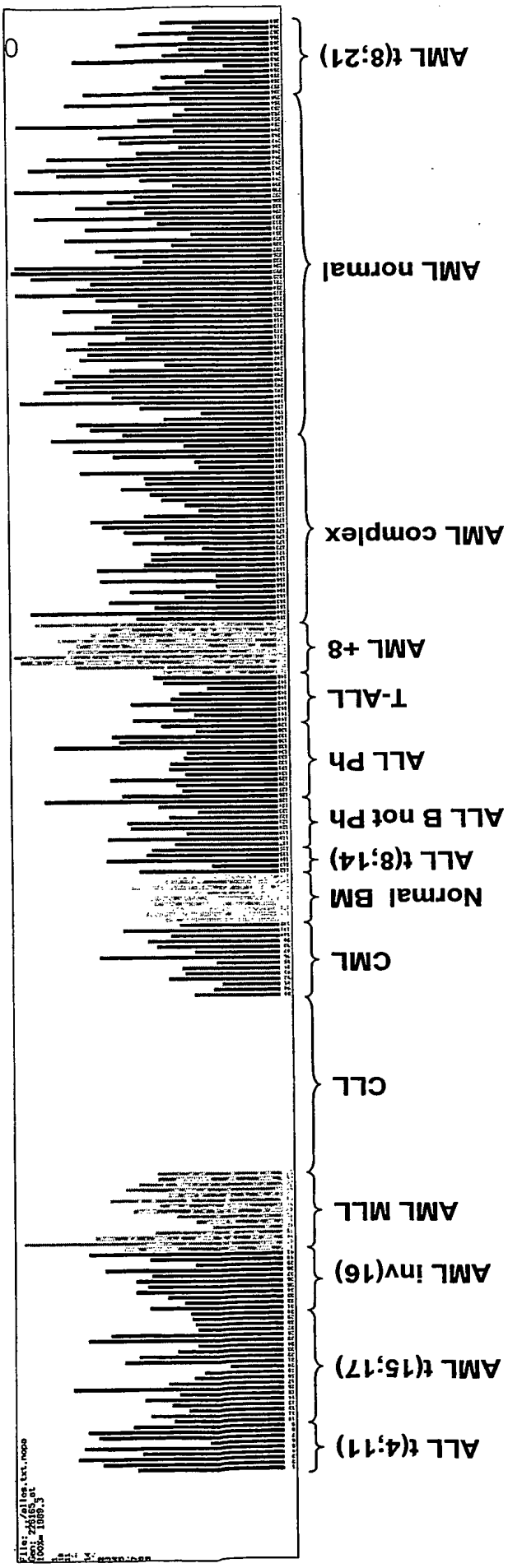


Figure 165

212586_at, ARTS-1, AML +8 vs. AML complex

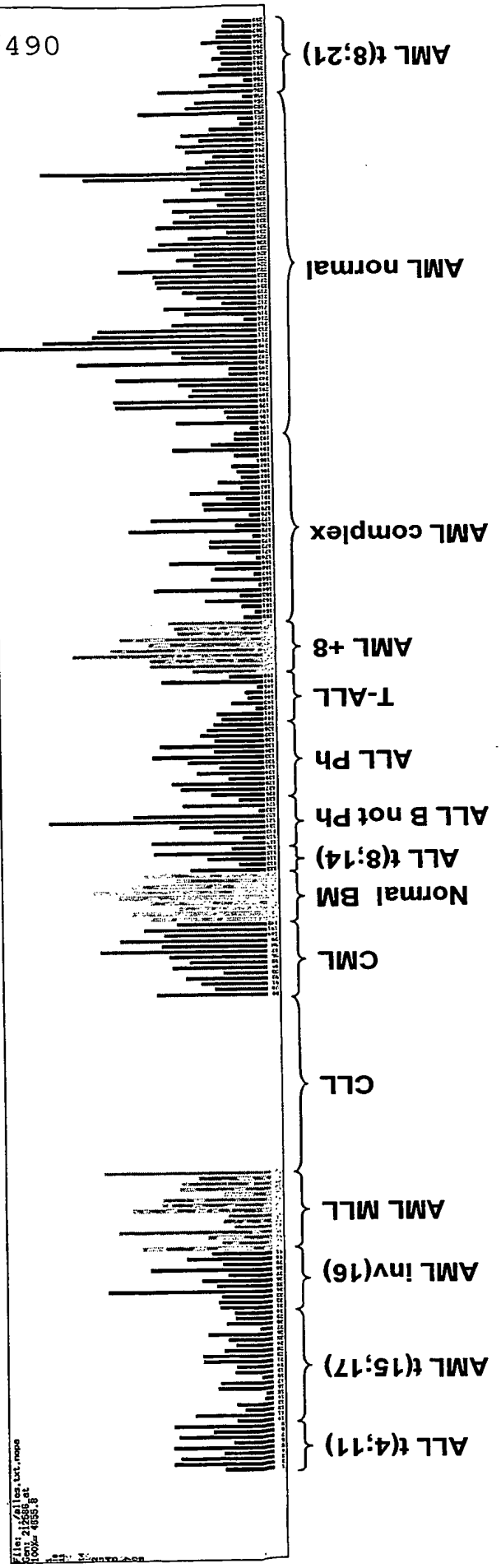


Figure 166

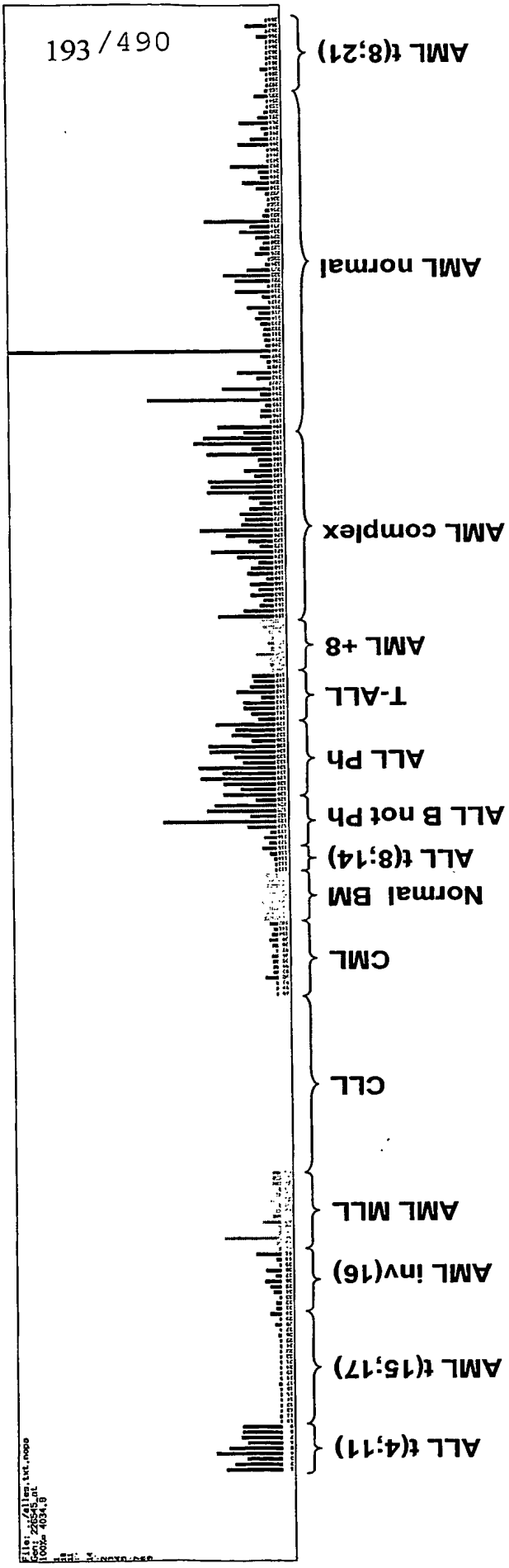

226545_at, AML +8 vs. AML complex
AML t(8;21)
AML normal
AML complex
AML +8
T-ALL
ALL Ph
ALL B not Ph
ALL t(8;14)
Normal BM
CML
CLL
AML MLL
AML inv(16)
AML t(15;17)
ALL t(4;11)

Figure 167

222166_at, AML +8 vs. AML complex

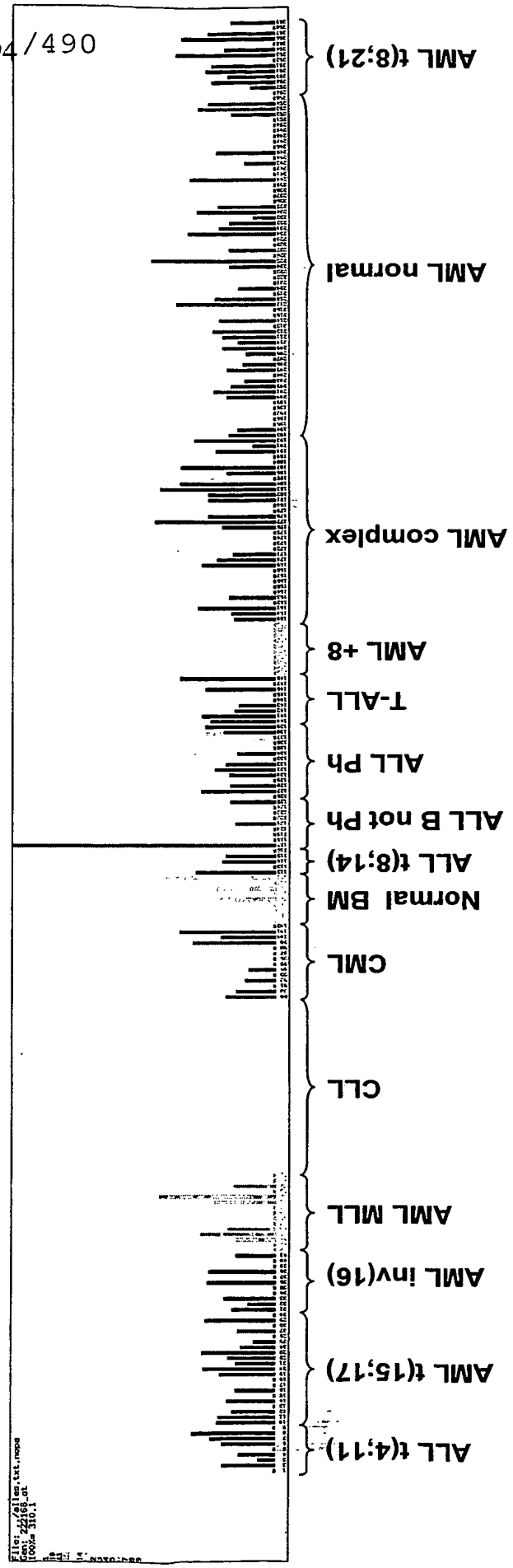


Figure 168

210715_s_at, SPINT2, AML +8 vs. AML complex

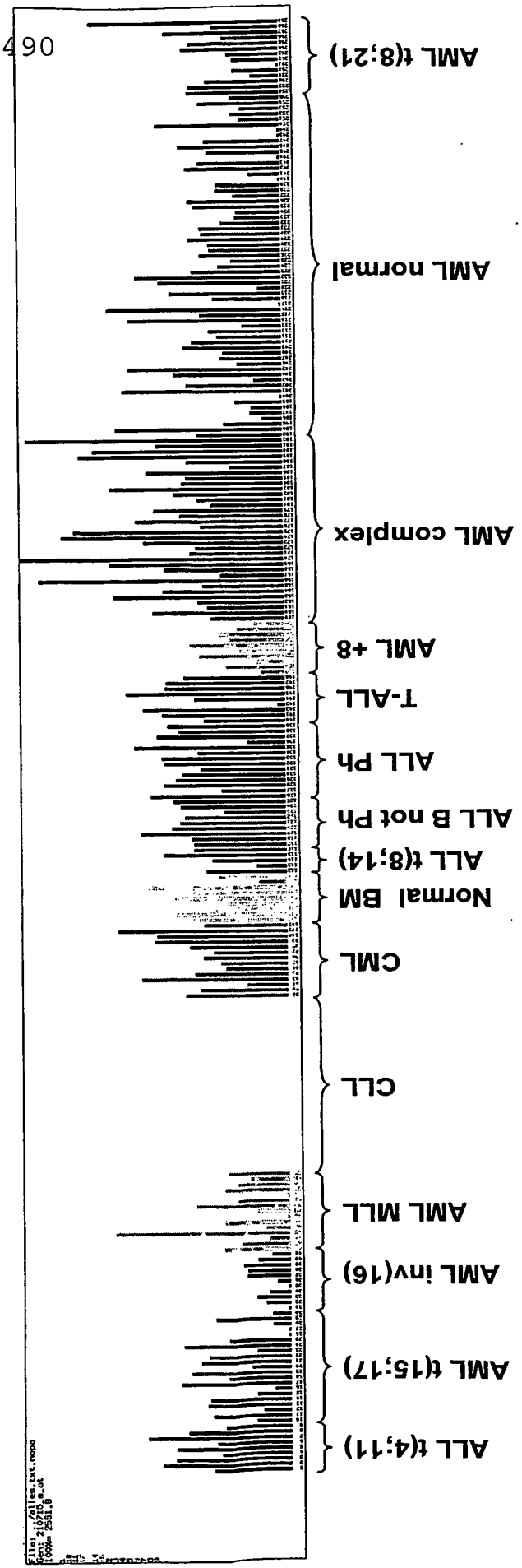


Figure 169

217979_at, NET-6, AML +8 vs. AML complex

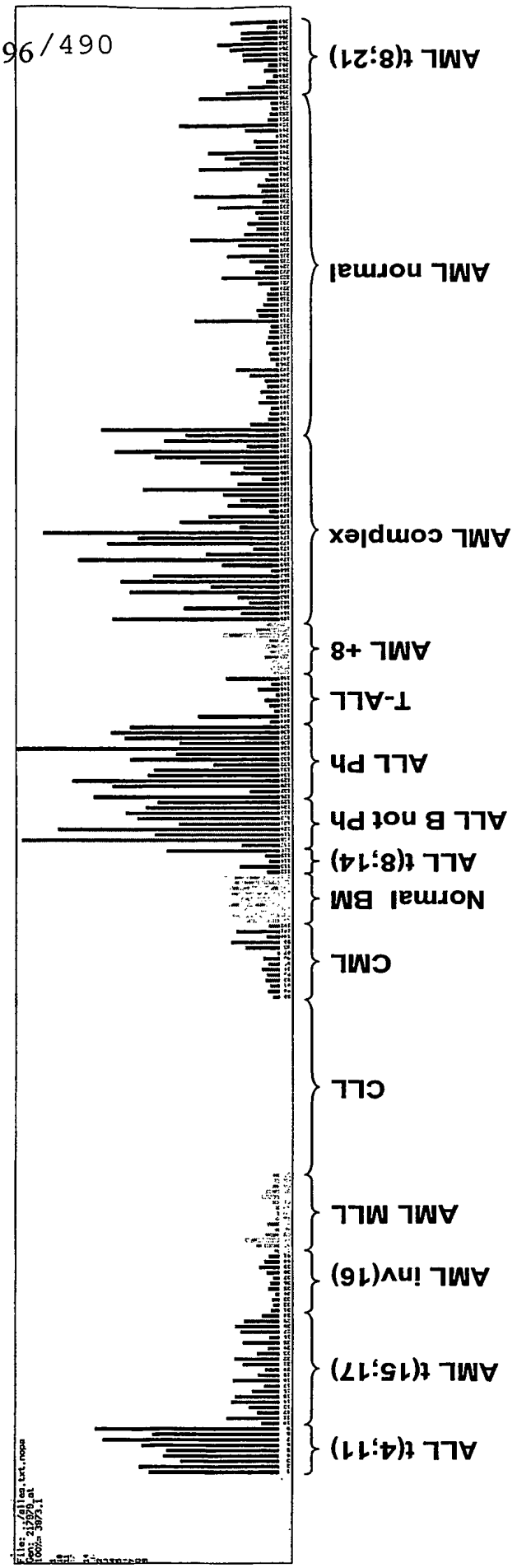


Figure 170

201548_s_at, PLU-1, AML +8 vs. AML complex

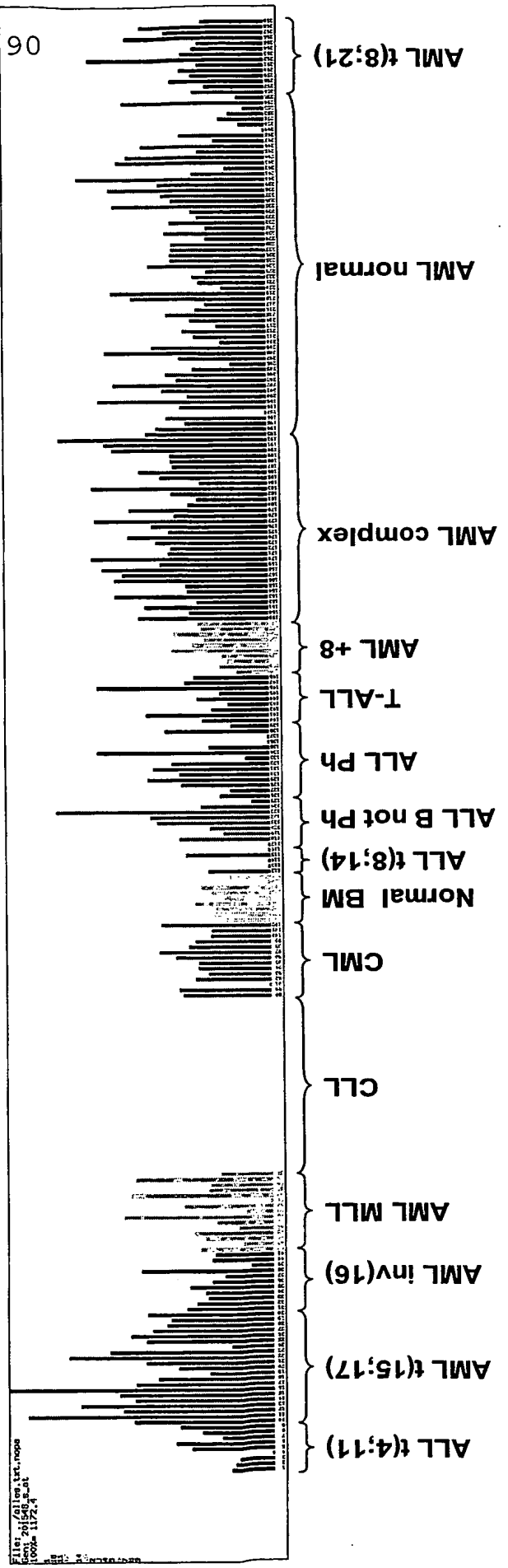


Figure 171

212251_at, AML +8 vs. AML normal

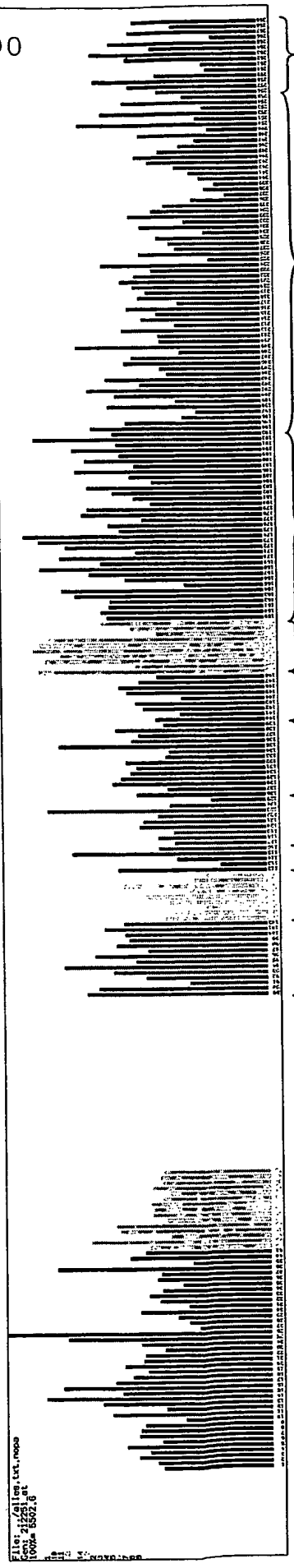


Figure 172

228827_at, AML +8 vs. AML t(8;21)

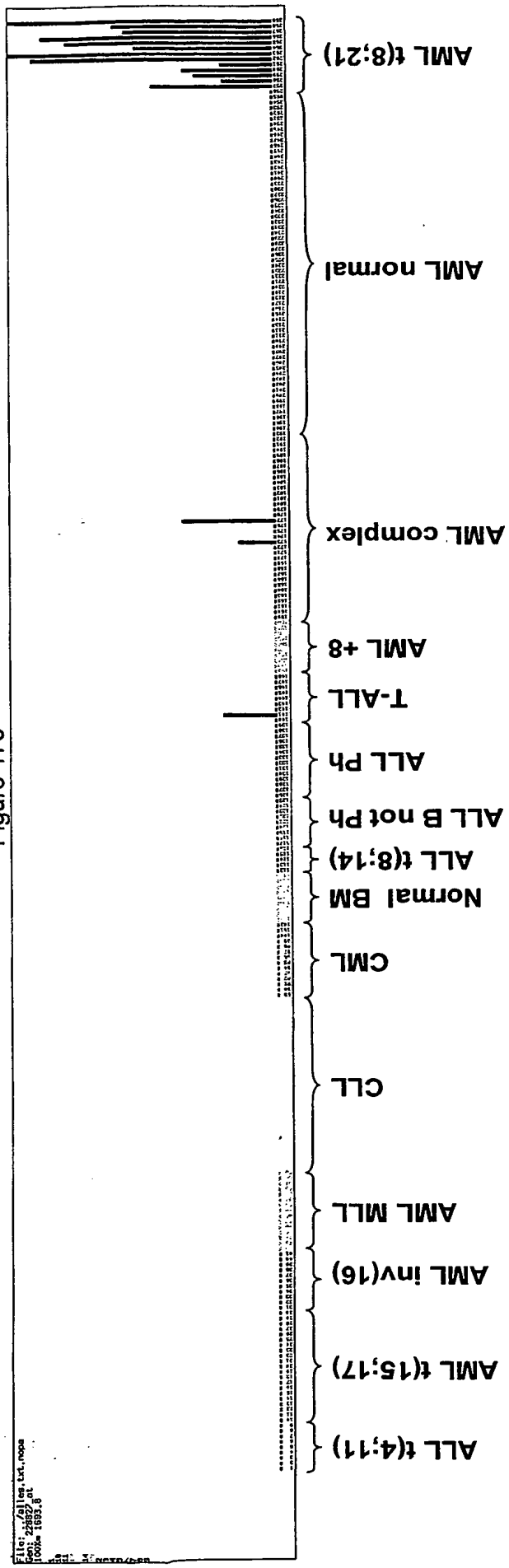


Figure 173

200608_s_at, RAD21, AML complex vs. all others

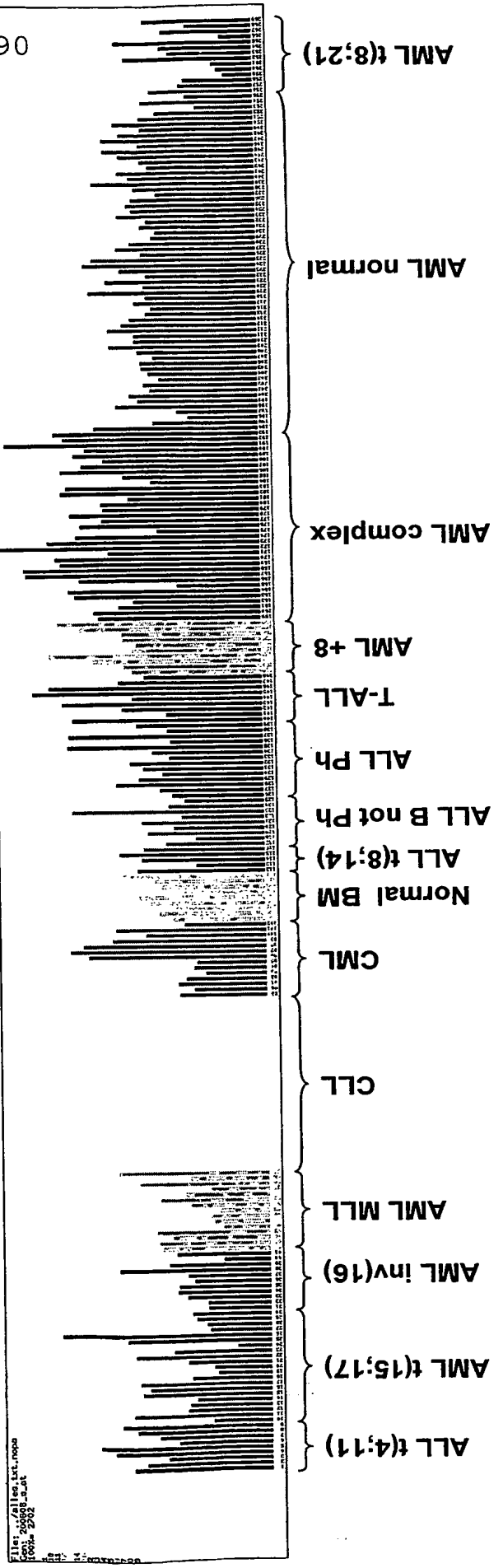


Figure 174

219793_at, SNX16, AML complex vs. all others

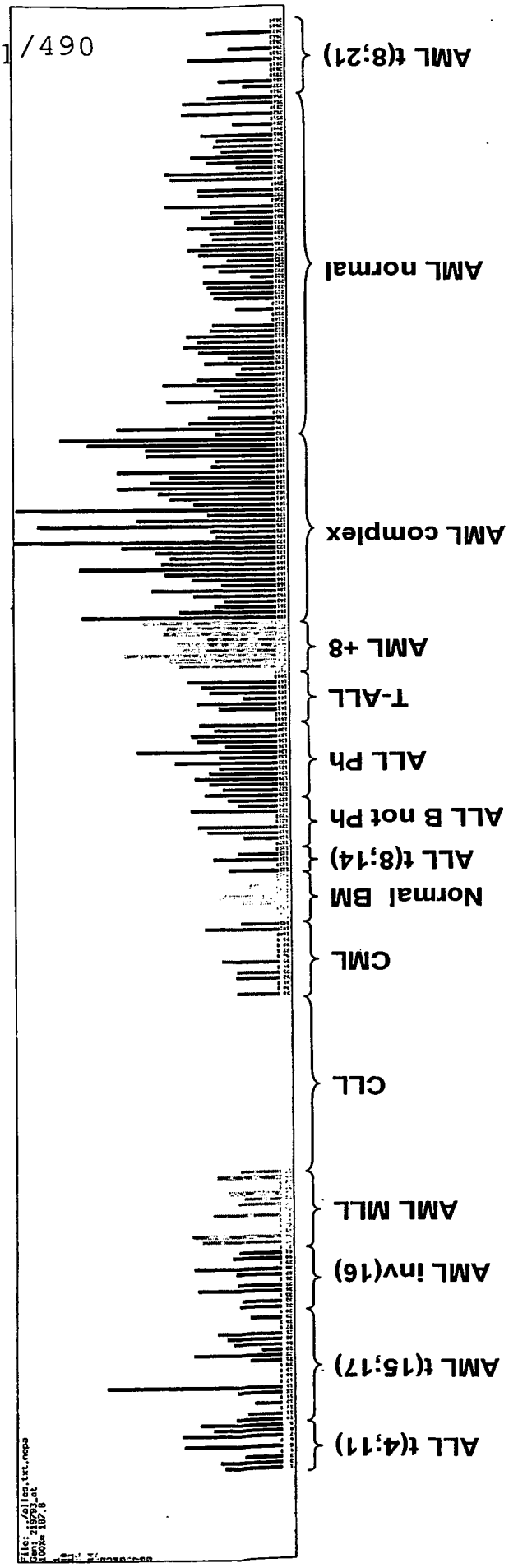


Figure 175

209523_at, AML complex vs. all others

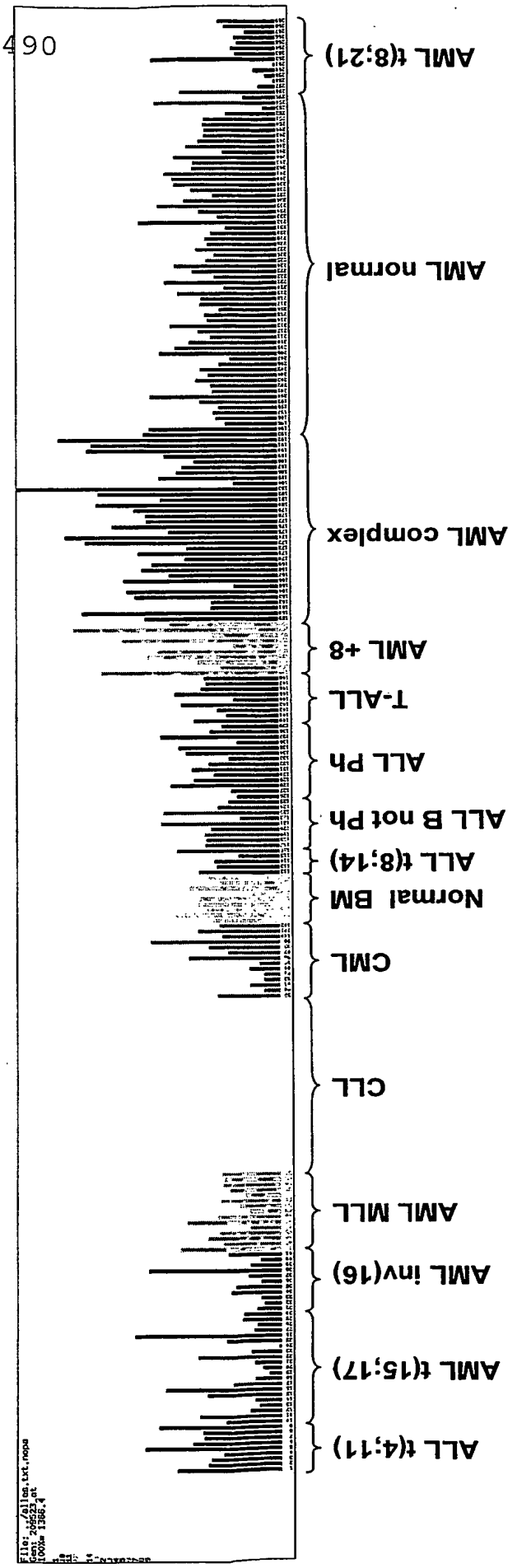


Figure 176

200093_s_at - HG-U133B, HINT1, AML complex vs. AML normal

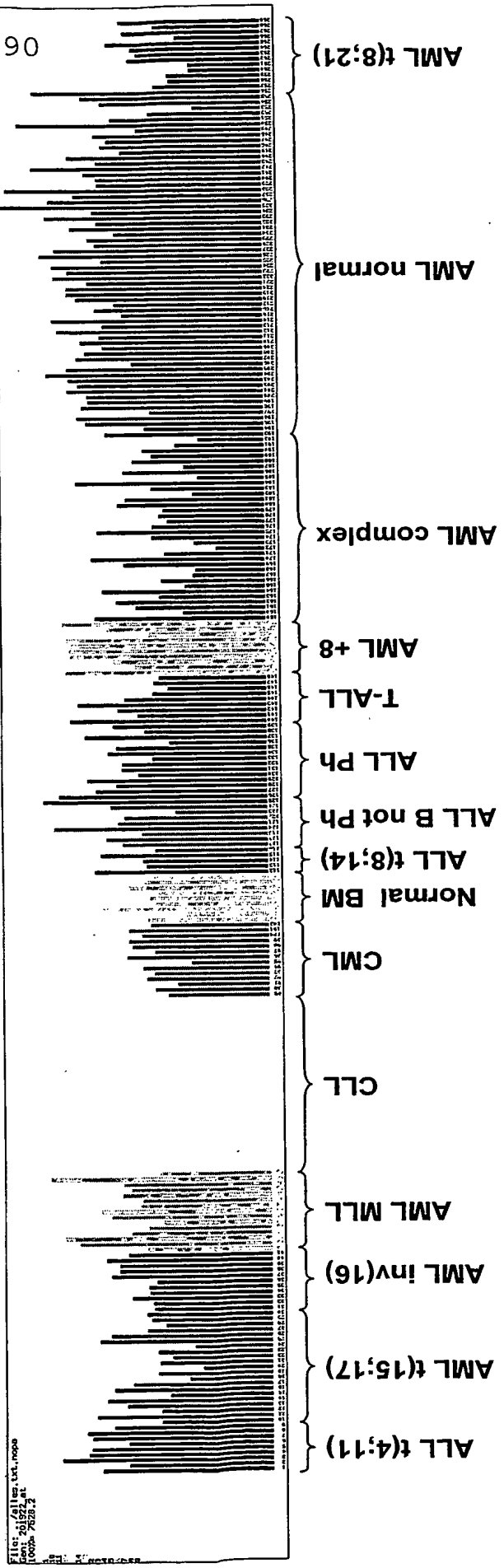


Figure 177

201922_at, YR-29, AML complex vs. AML normal

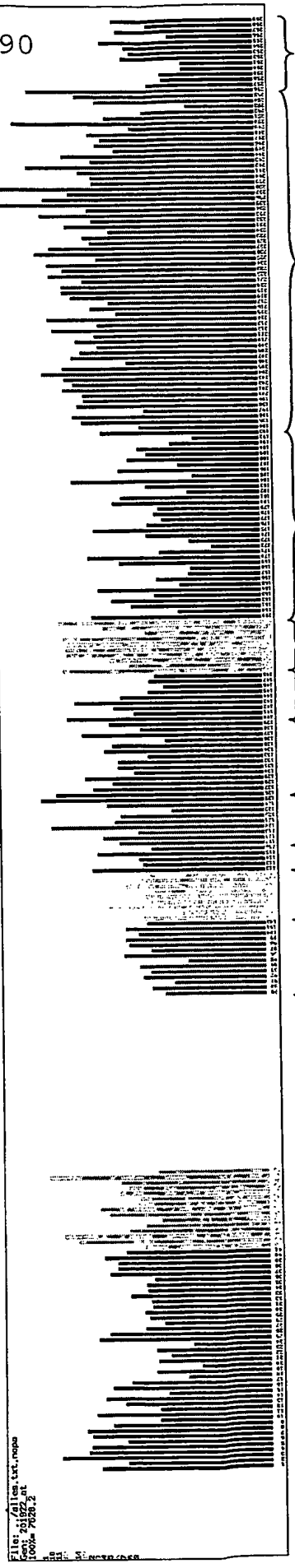


Figure 178

239791_at, HOXB6, AML complex vs. AML normal

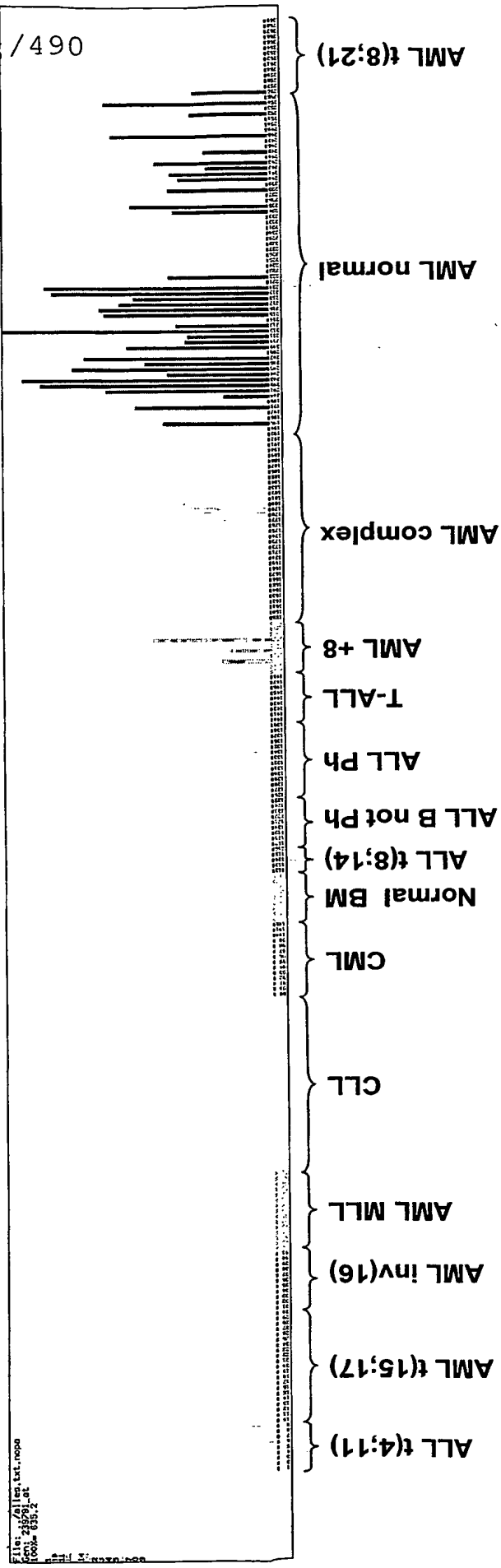


Figure 179

200608_s_at, RAD21, AML complex vs. AML normal

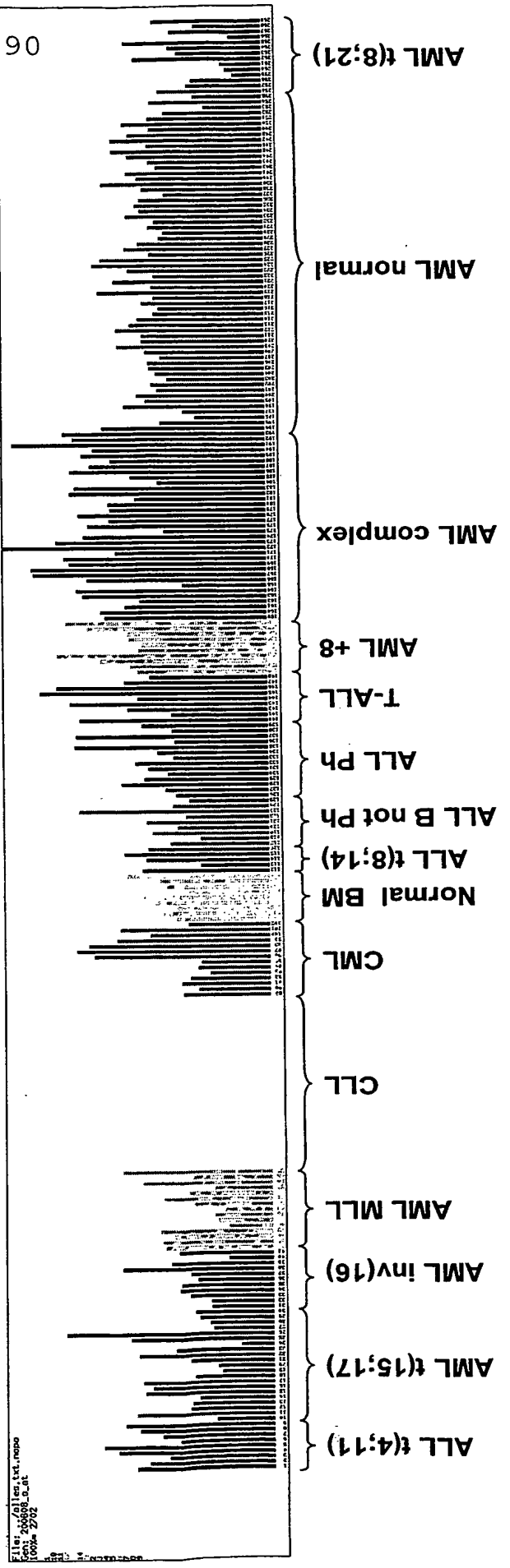


Figure 180

211950_at, RBAF600, AML complex vs. AML normal

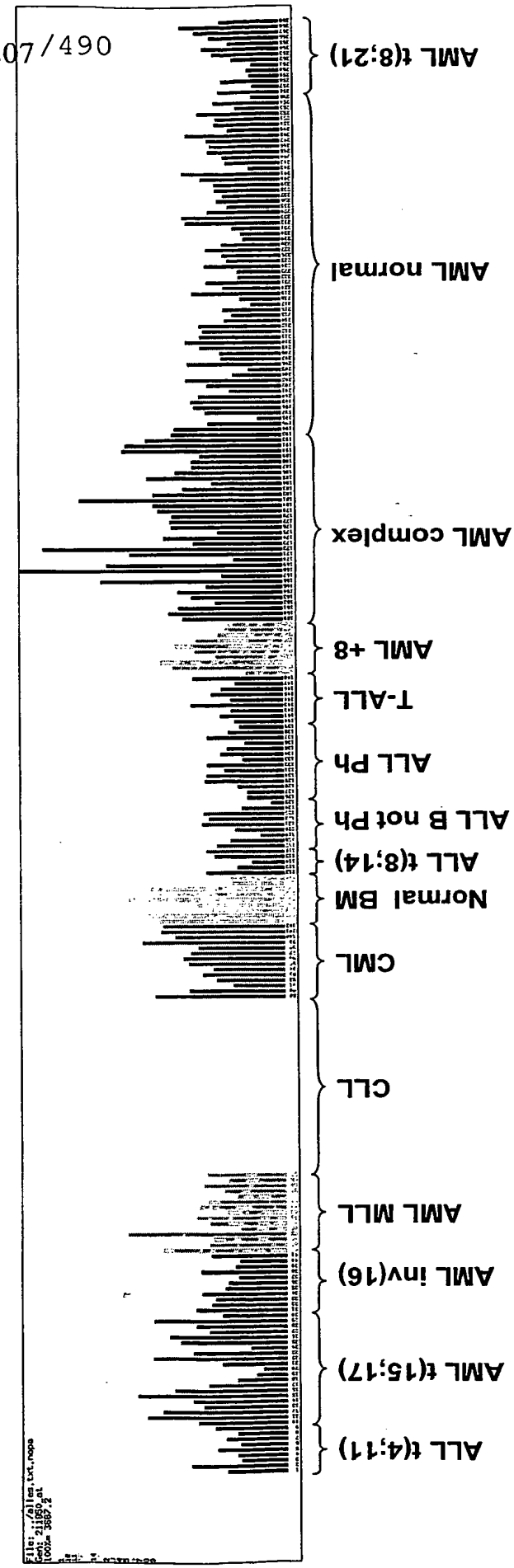


Figure 181

228827_at, AML complex vs. AML t(8;21)

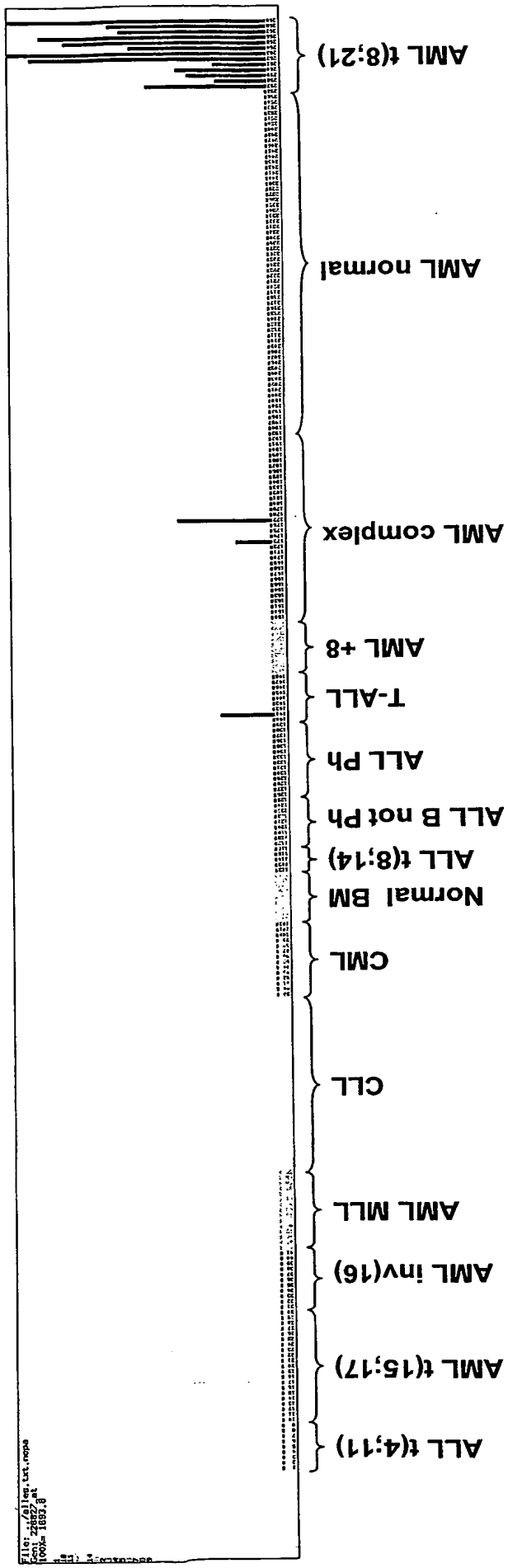


Figure 182

204249_s_at, LMO2, AML complex vs. AML t(8;21)

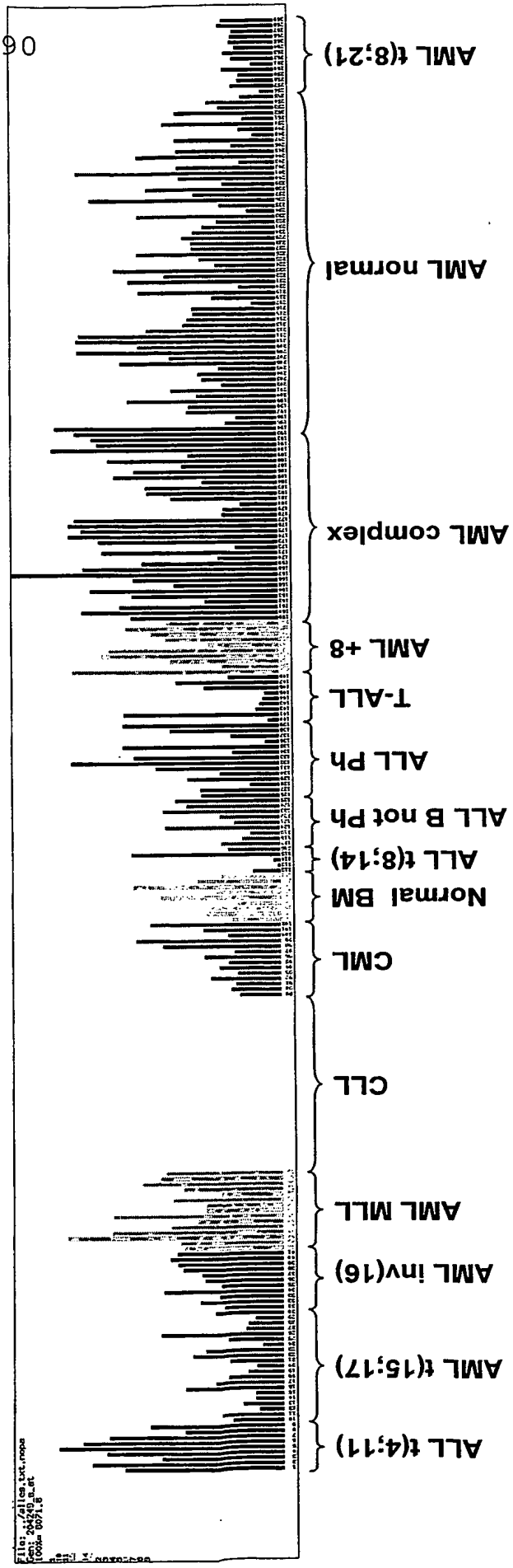


Figure 183

BNSDOCID: <WO_____03039443A2_I_>

236892_s_at, HOXB6, AML normal vs. all others

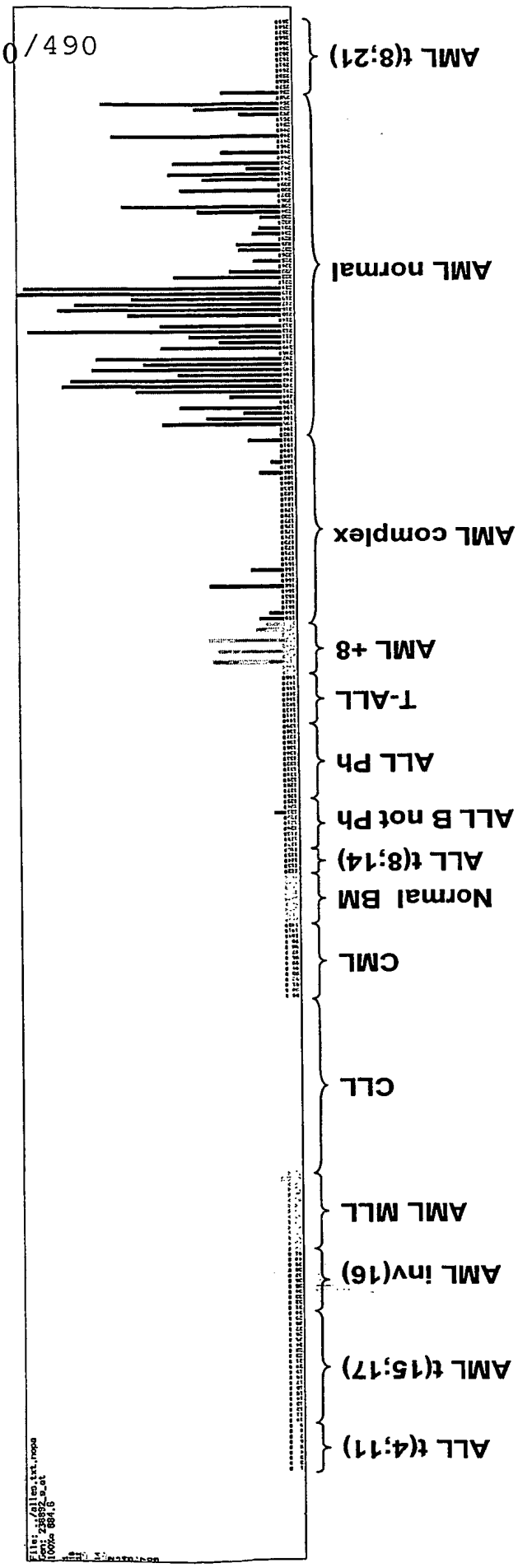


Figure 184

205366_s_at, HOXB6, AML normal vs. All others

Figure 185

228827_at, AML normal vs. AML t(8;21)

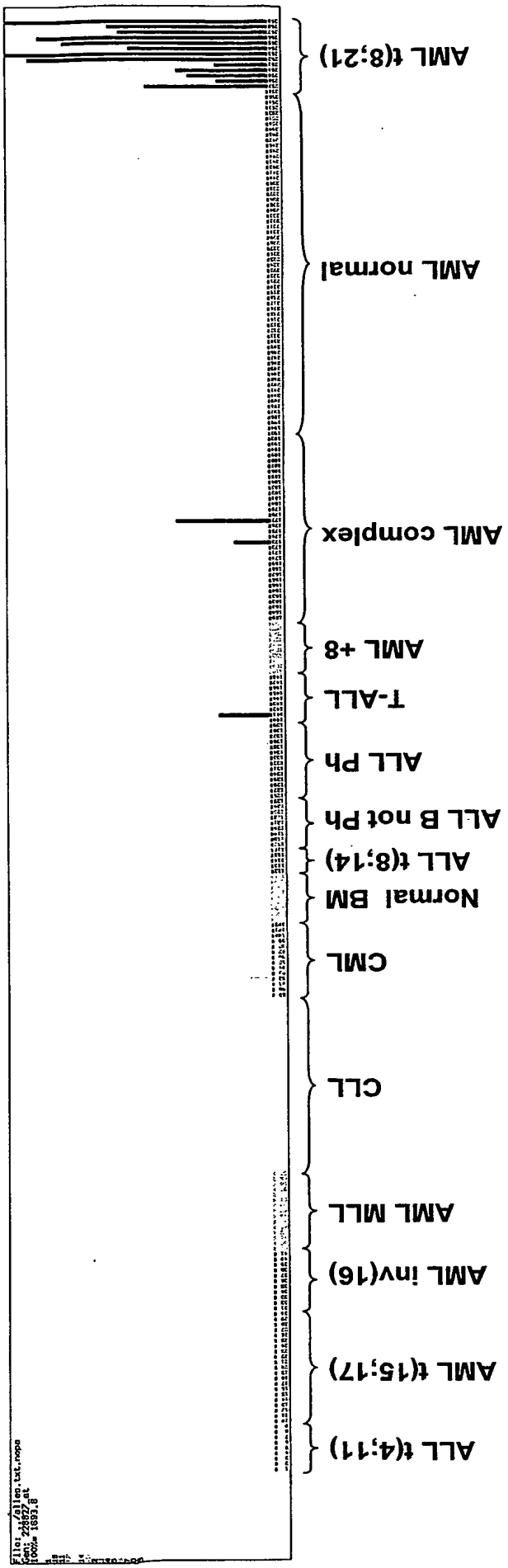


Figure 186

205529_s_at, CBFA2T1, AML t(8;21) vs. all others

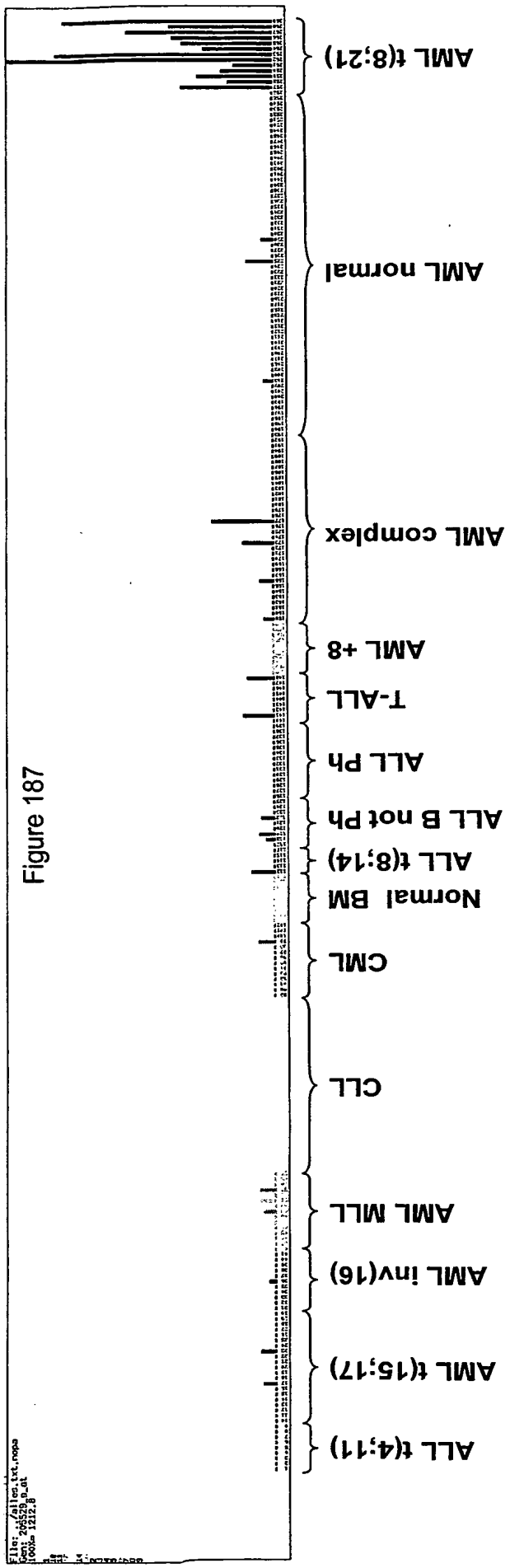


Figure 187

201998_at, SIAT1, CLL

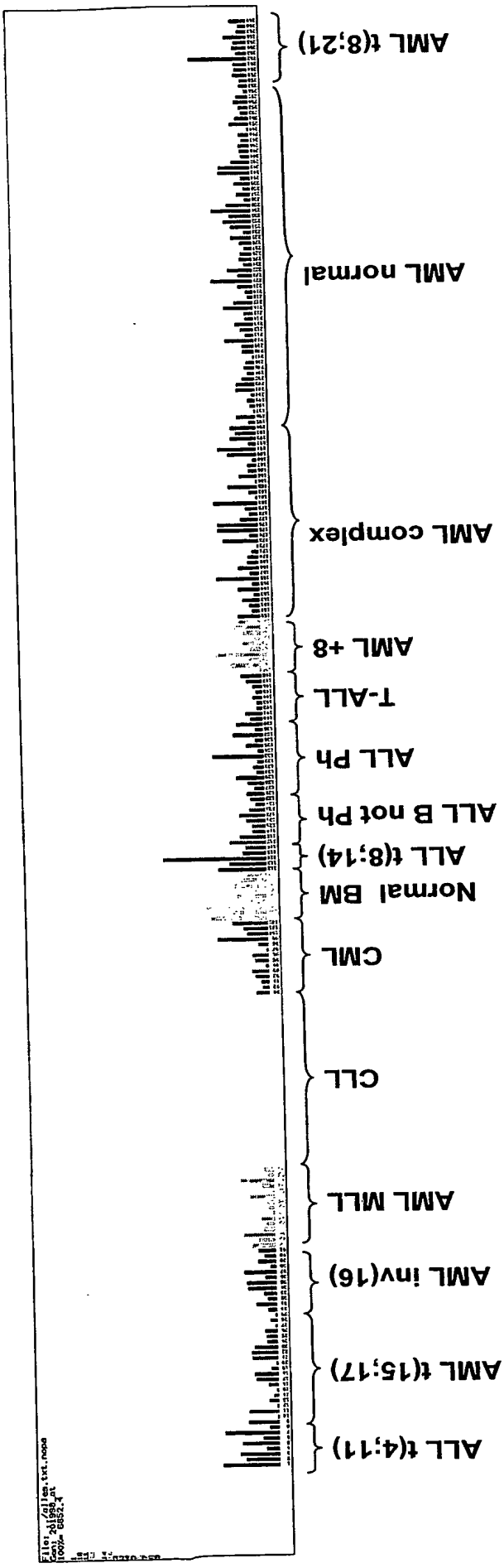


Figure 188

204150_at, STAB1, AML t(15;17)

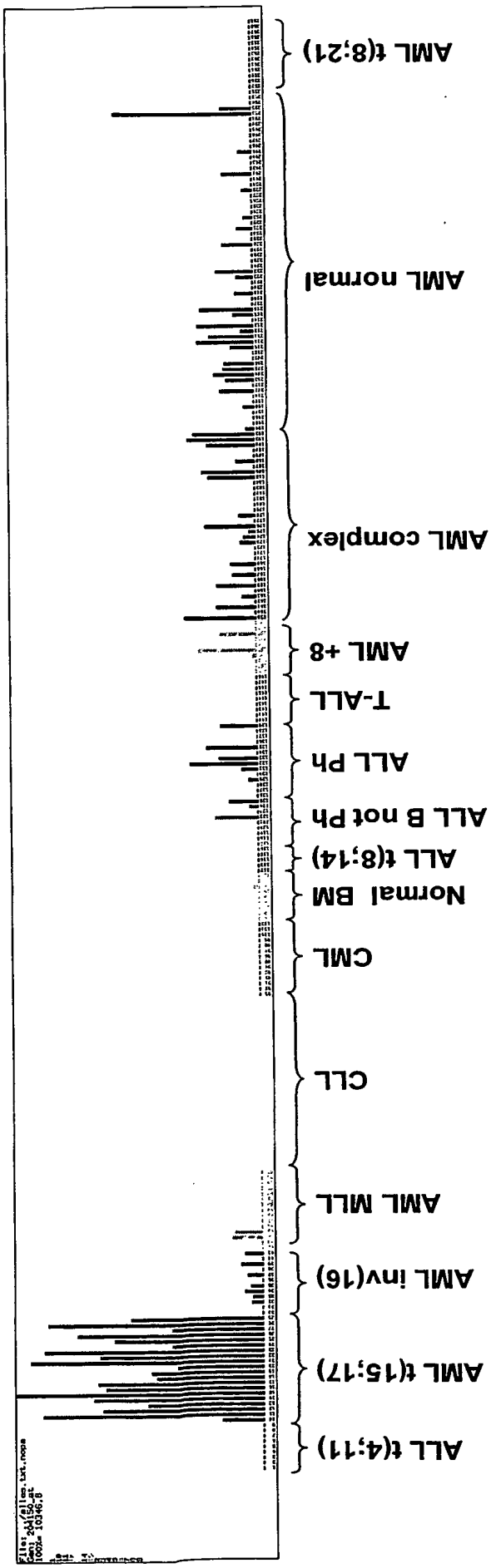


Figure 189

204511_at, KIAA0793, CLL

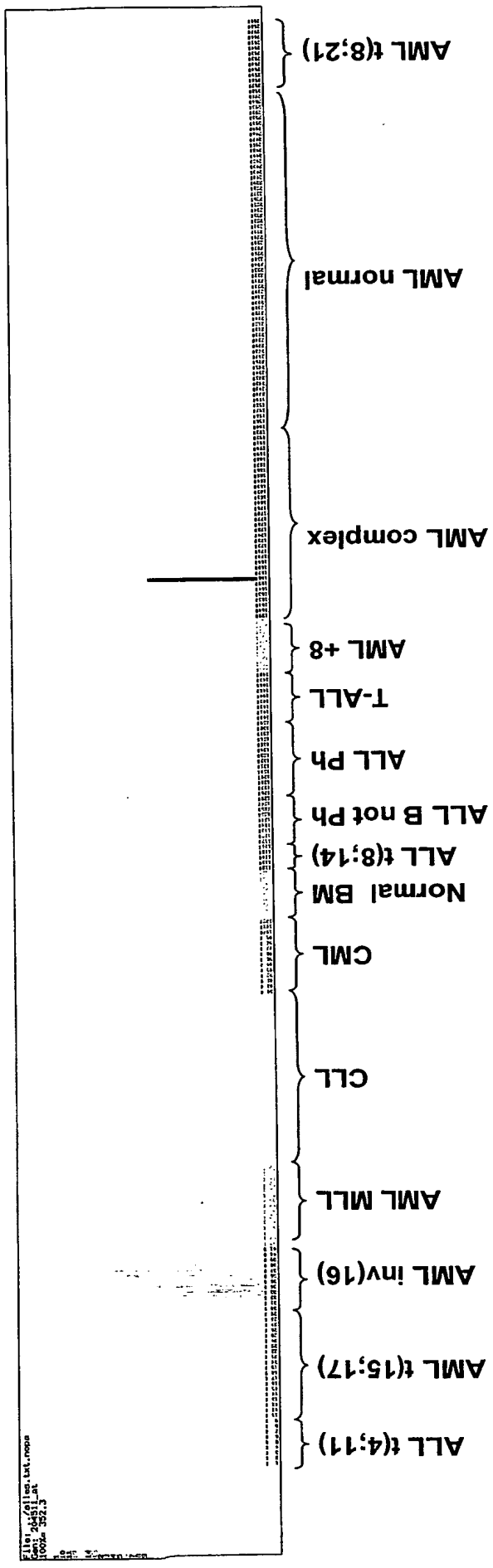


Figure 190

207819_s_at, ABCB4, CLL

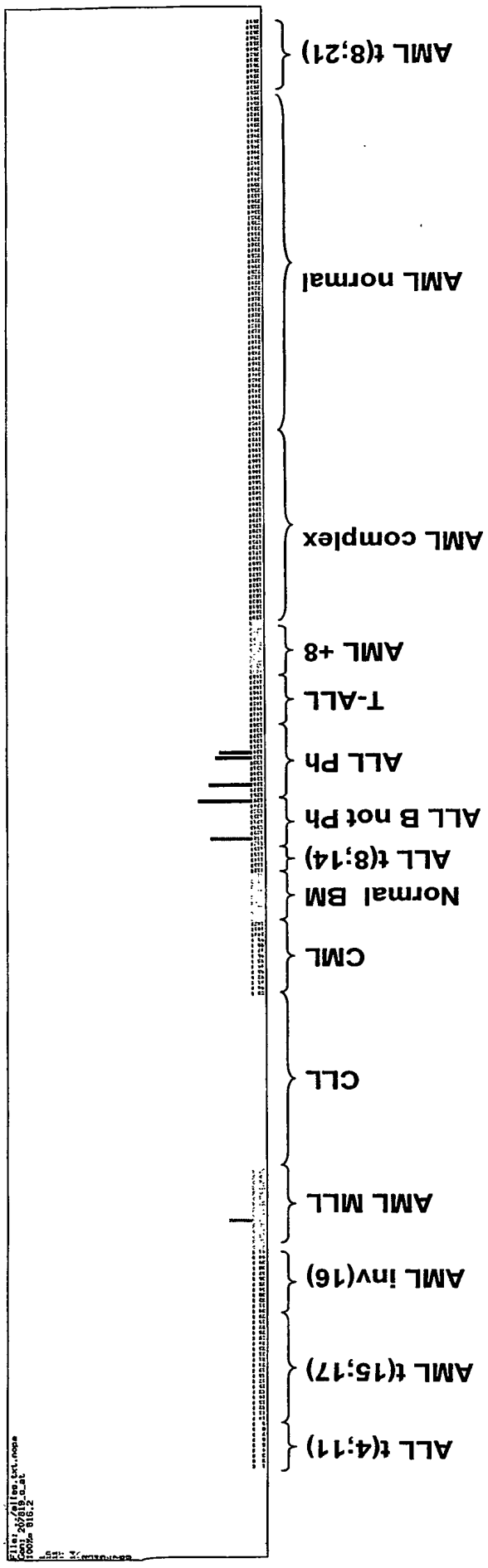


Figure 191

205805_s_at, ROR1, CLL

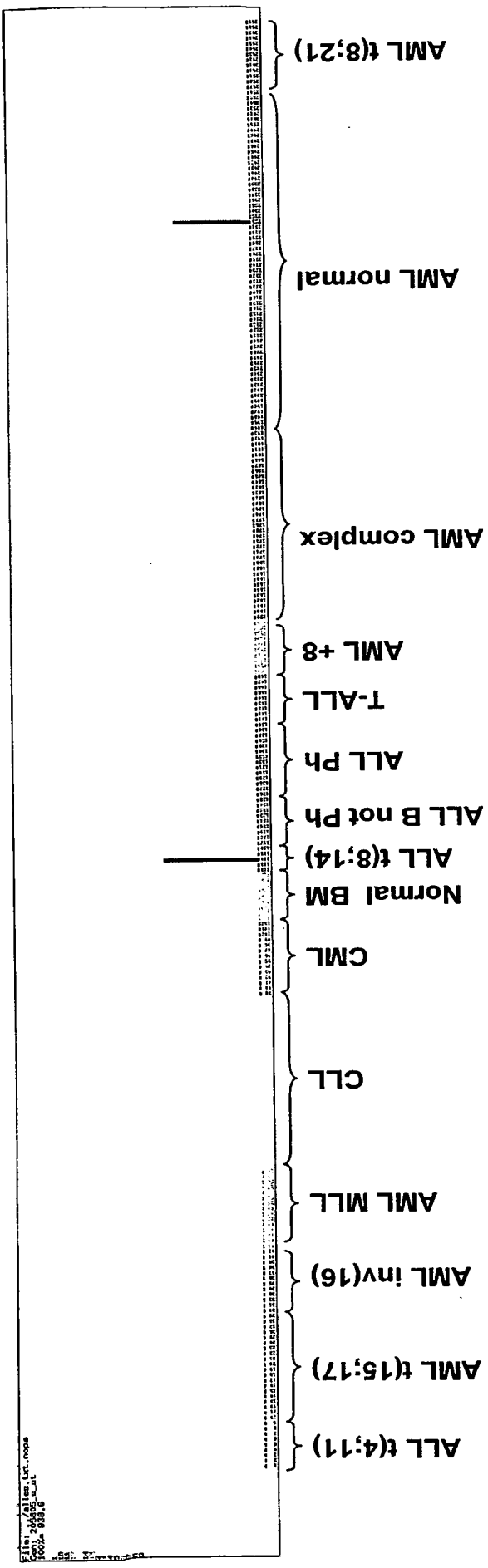


Figure 192

208091_s_at, DKFZP564K0822, CLL

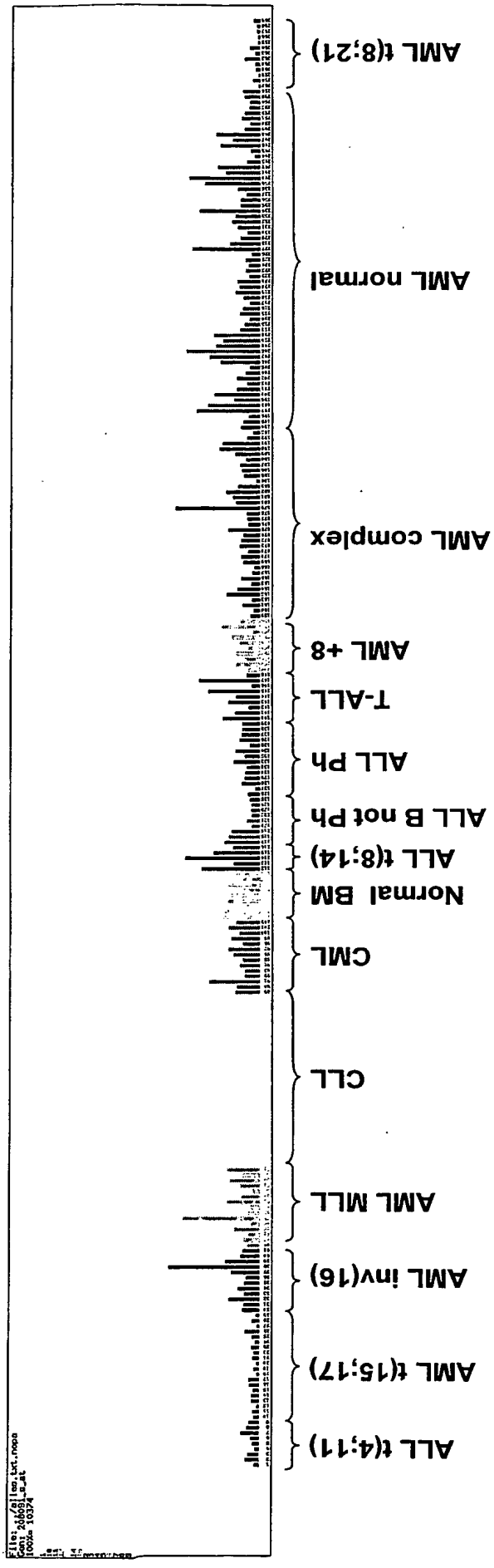


Figure 193

208456_s_at, RRAS2, CLL

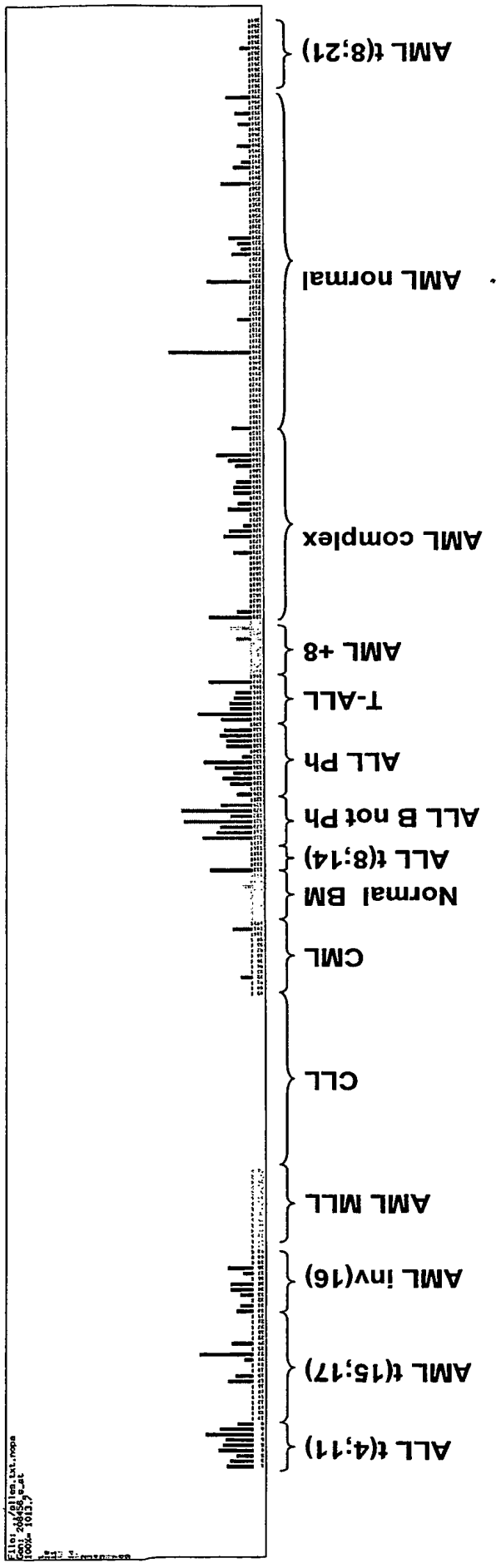


Figure 194

209061_at, NCOA3, CLL

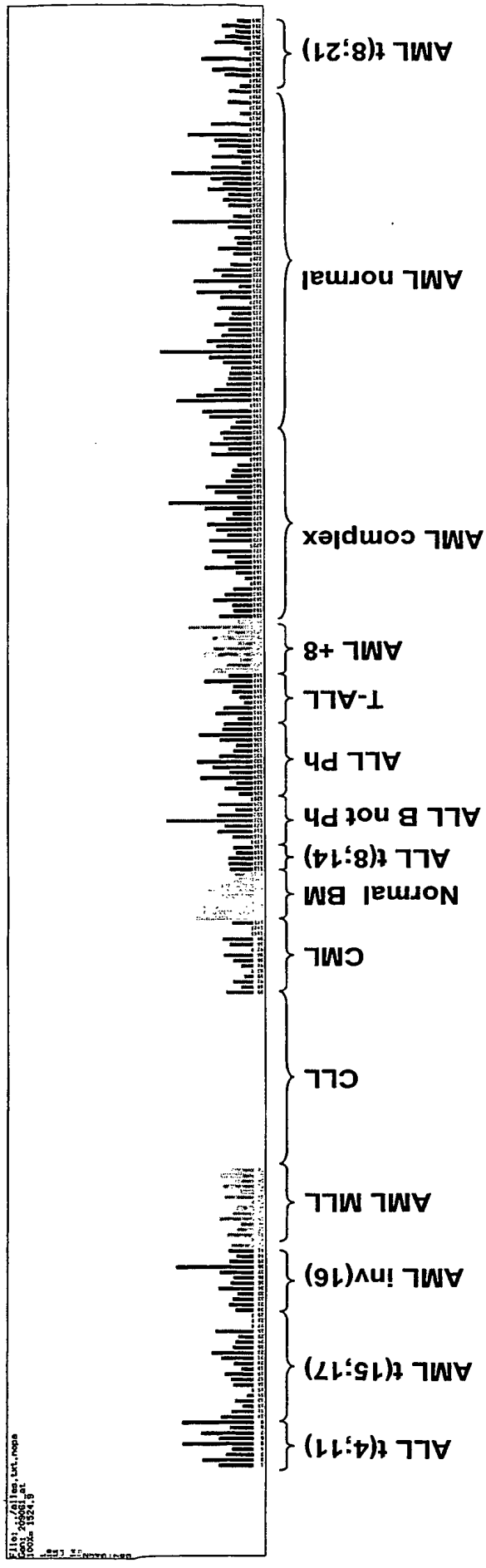


Figure 195

209374_s_at, IGHM, CLL

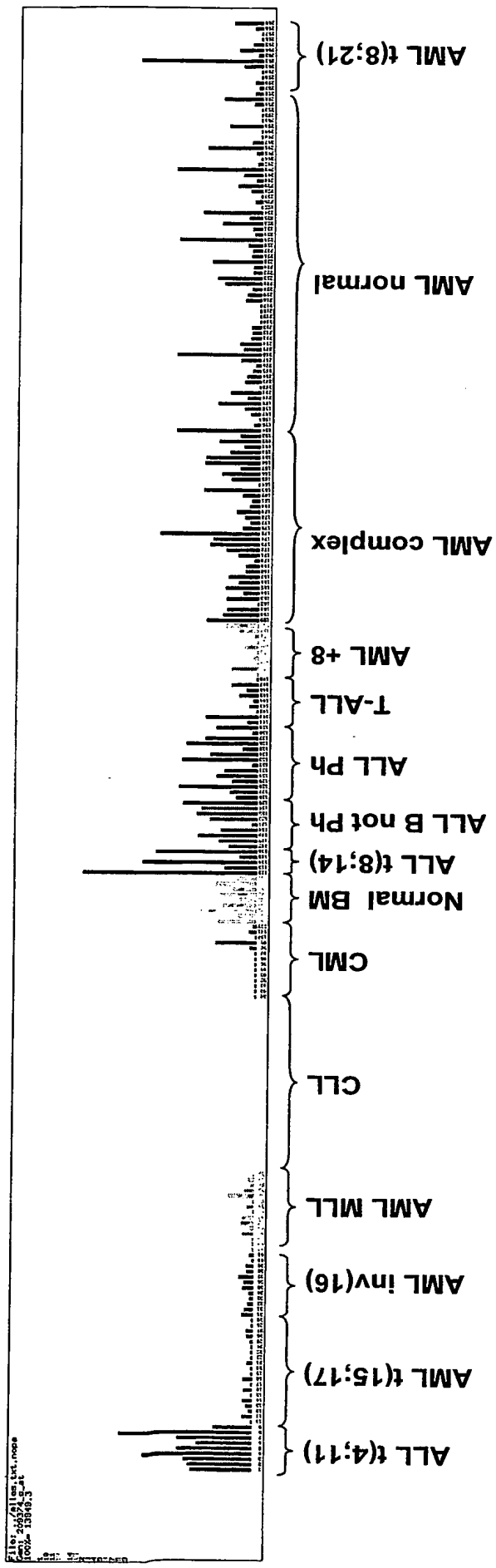


Figure 196

38487_at, FLJ12442, AML t(15;17)

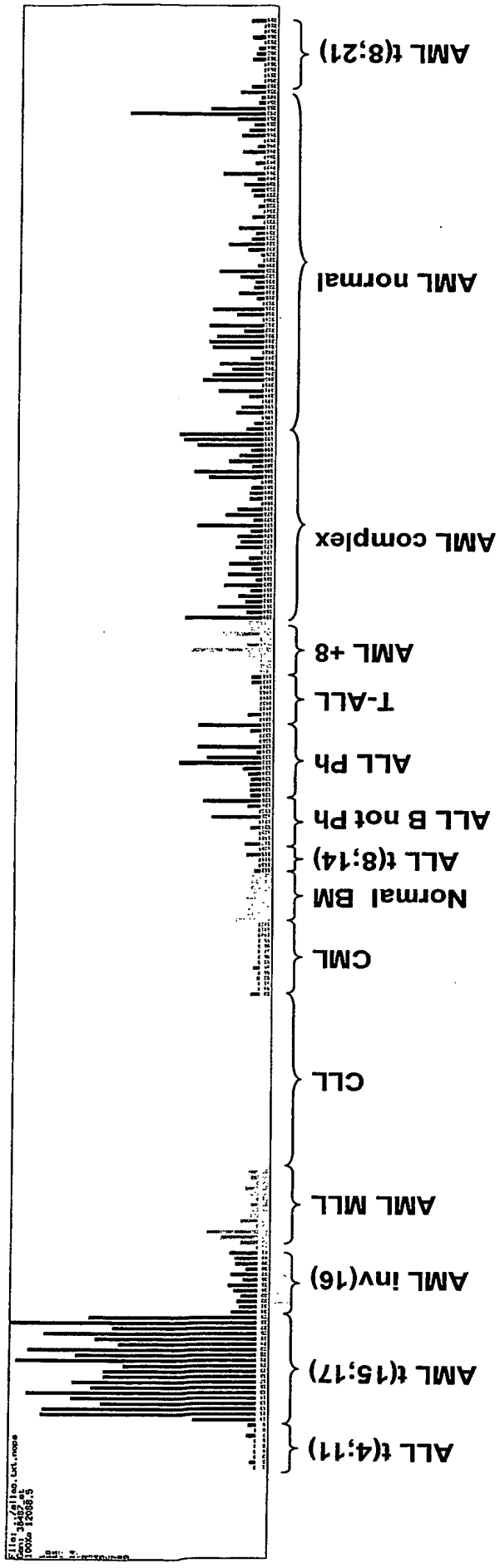


Figure 197

201162_at, IGFBP7, CLL

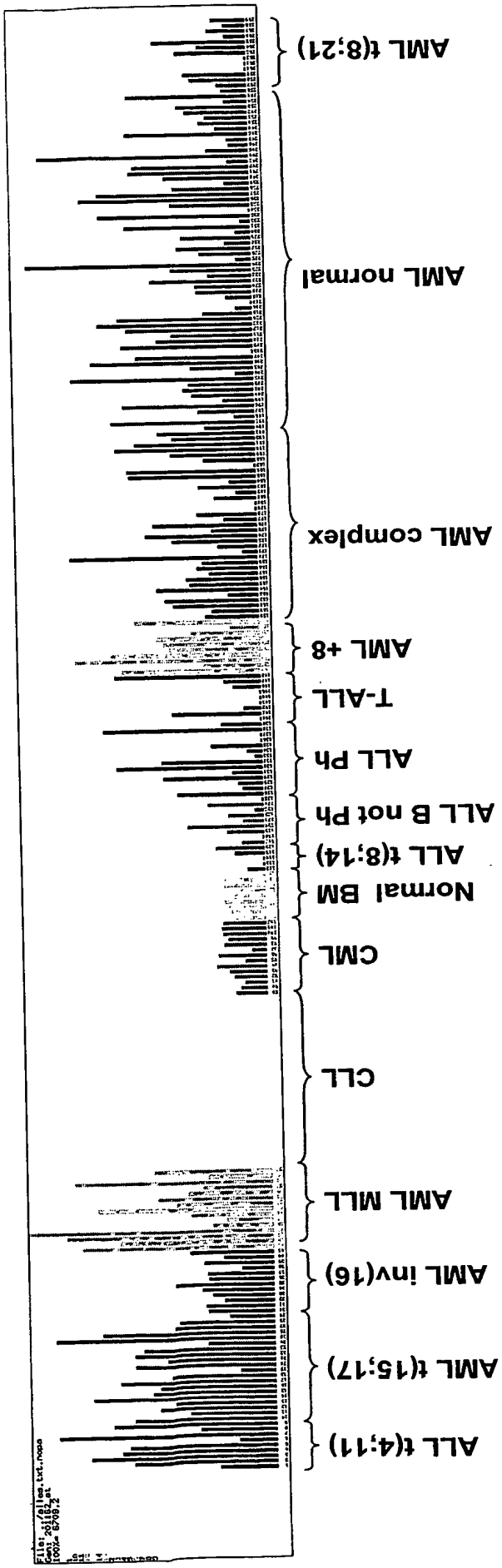


Figure 198

201163_s_at, IGFBP7, CLL

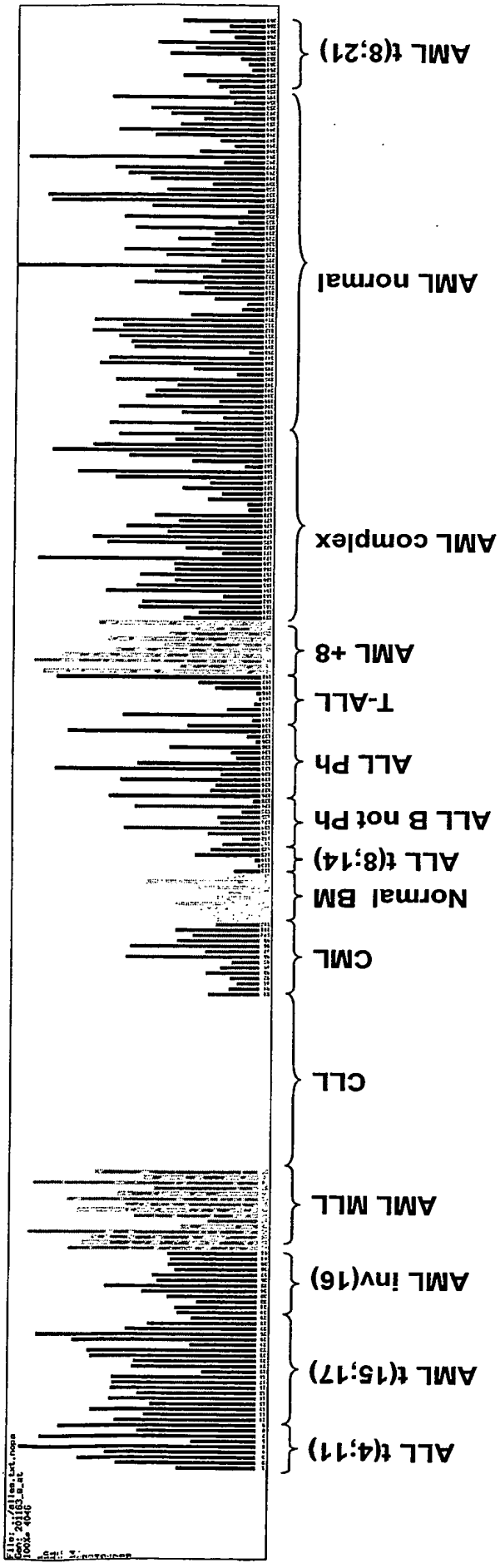


Figure 199

202095_s_at, BIRC5, CLL

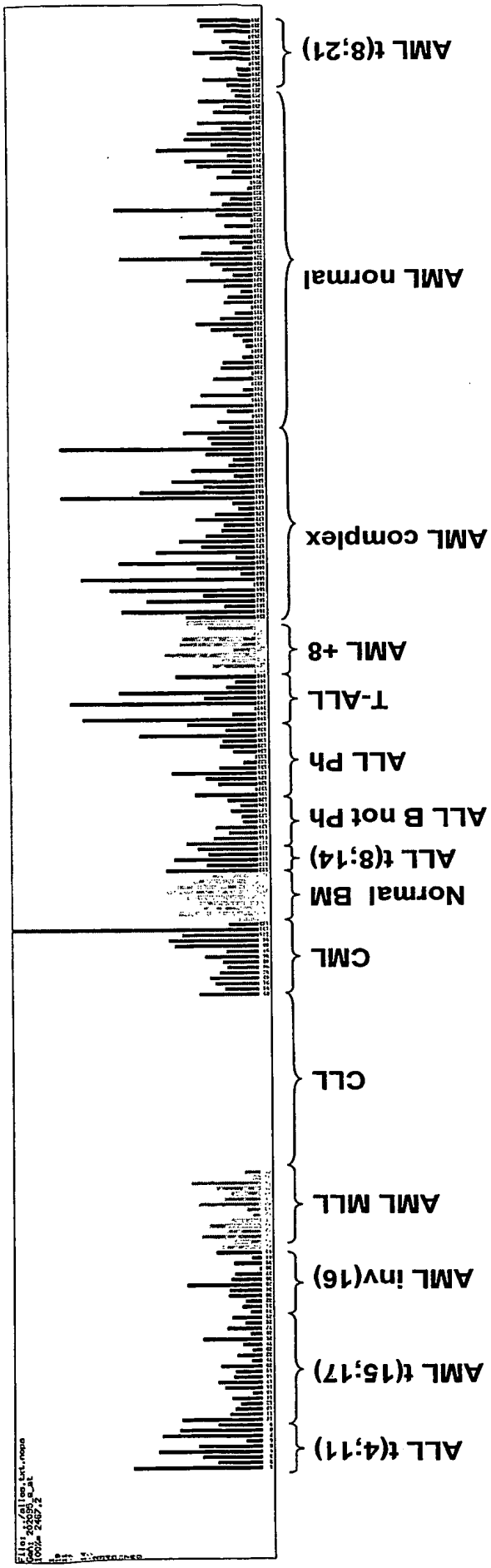


Figure 200

201362_at, NS1-BP, CML

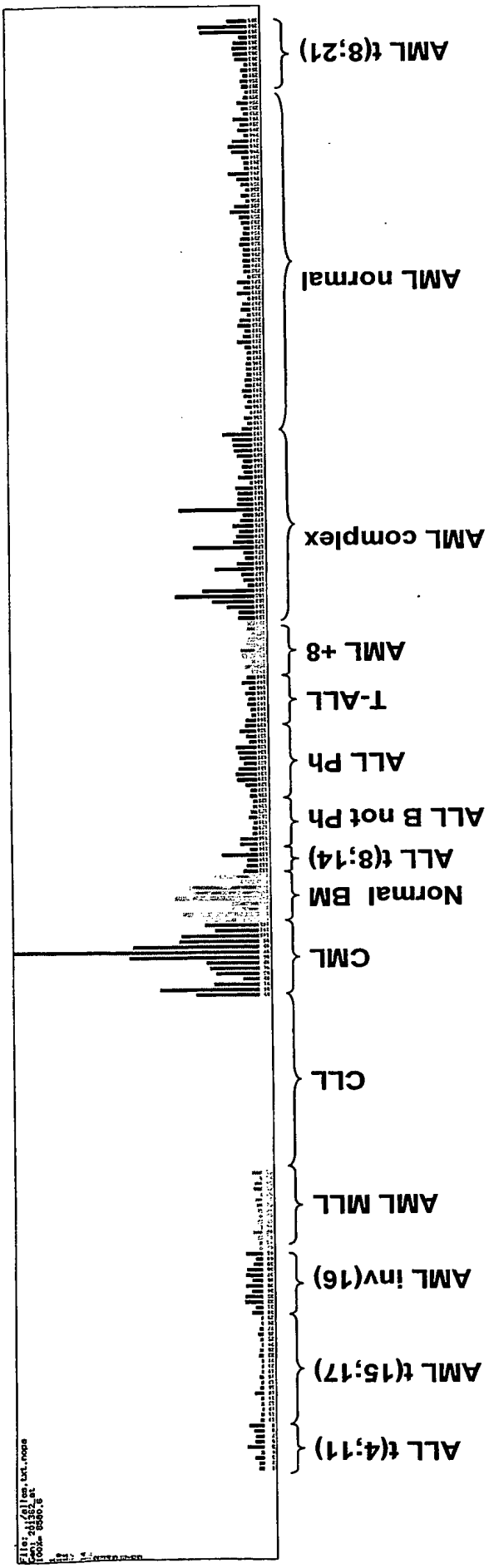


Figure 201

203074_at, ANXA8, AML t(15;17)

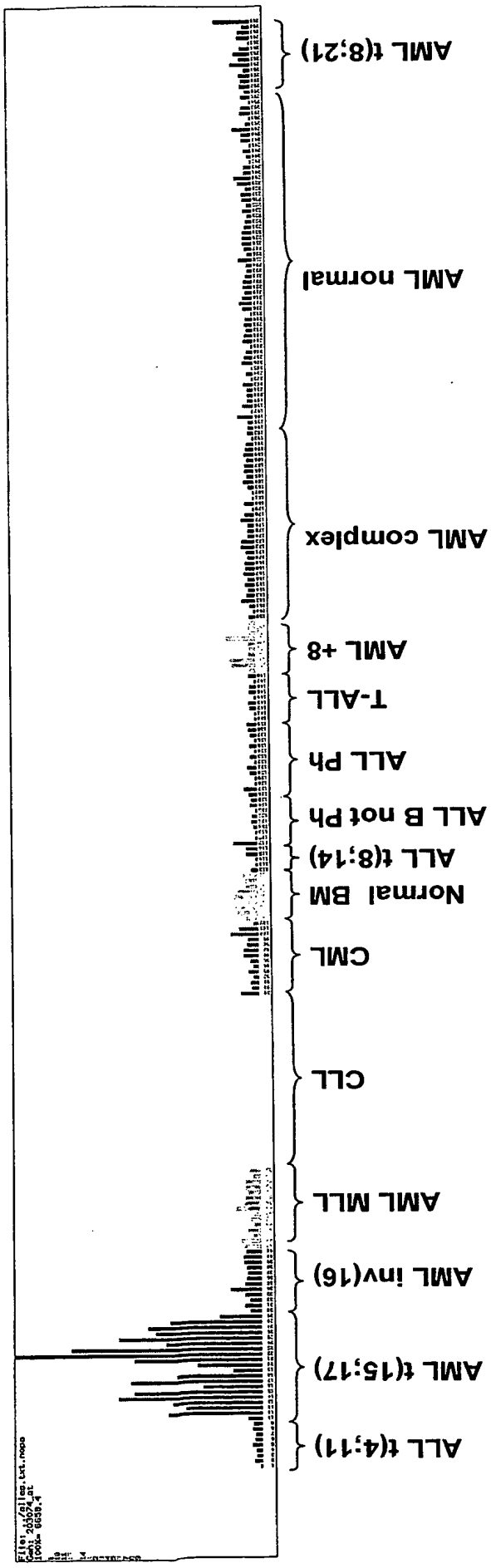


Figure 202

201496_x_at, MYH11, AML inv(16)

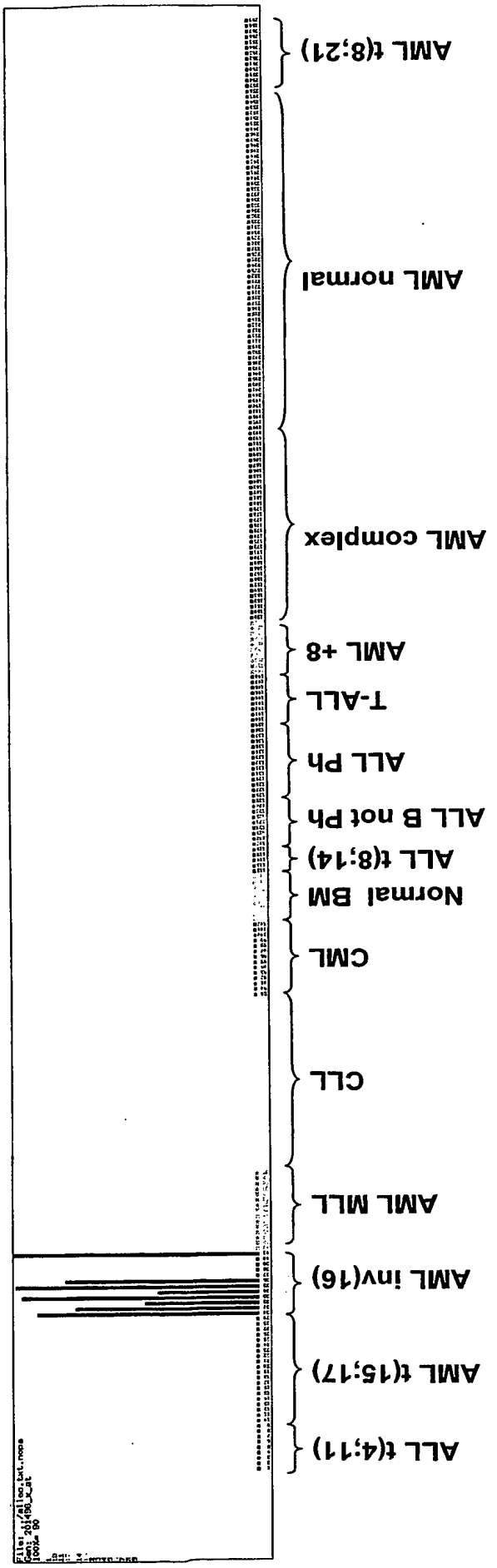


Figure 203

205528_s_at, CBFA2T1, AML t(8;21)

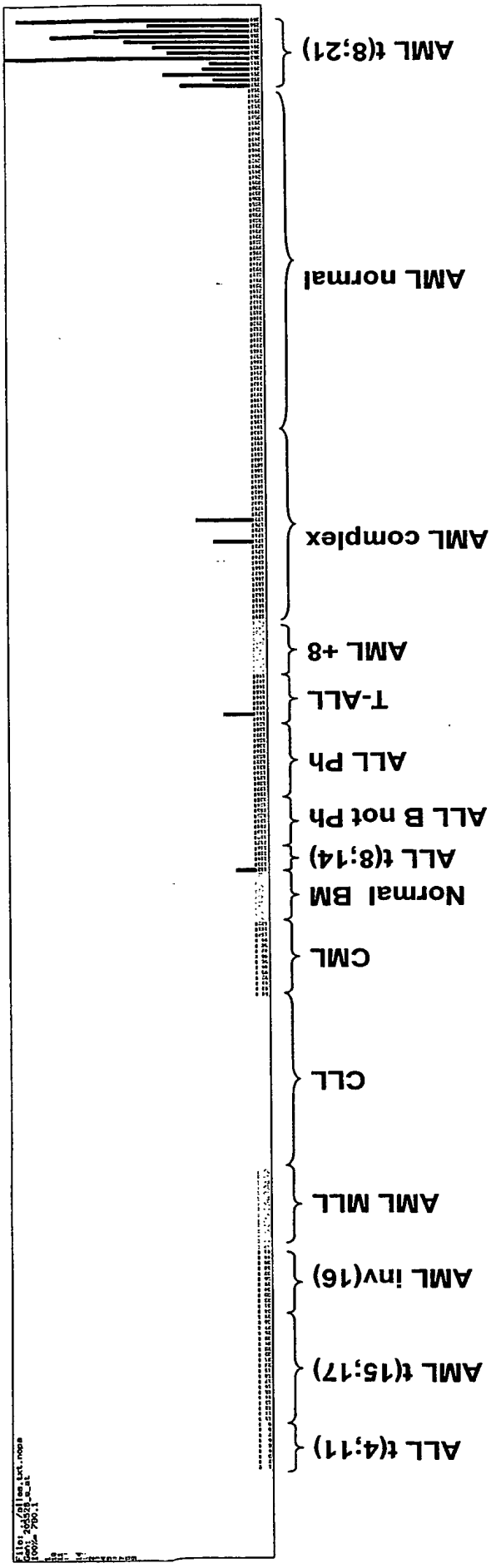


Figure 204

201497_x_at, MYH11, AML inv(16)

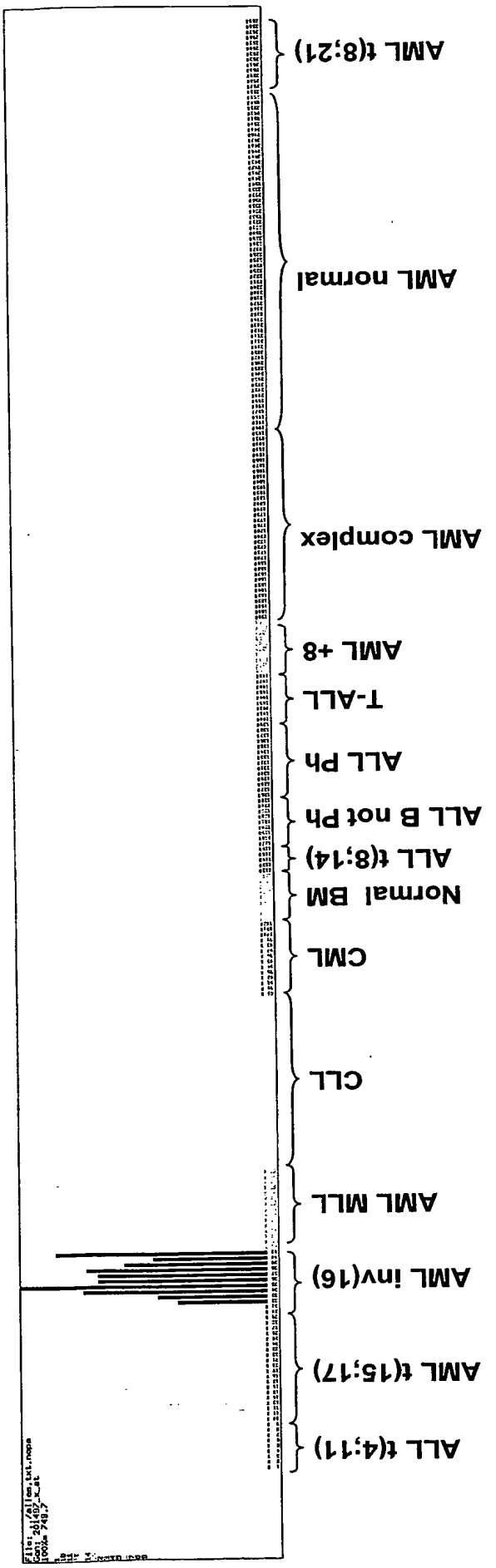


Figure 205

205529_s_at, CBFA2T1, AML t(8;21)

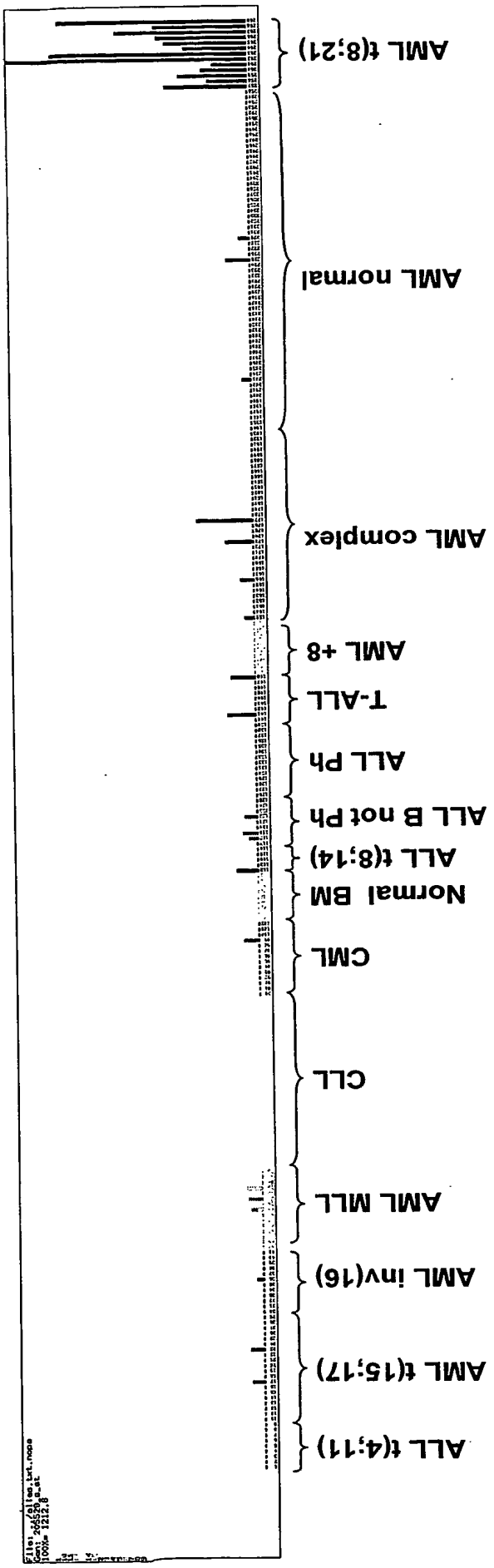


Figure 206

206940_s_at, POU4F1, AML t(8;21)

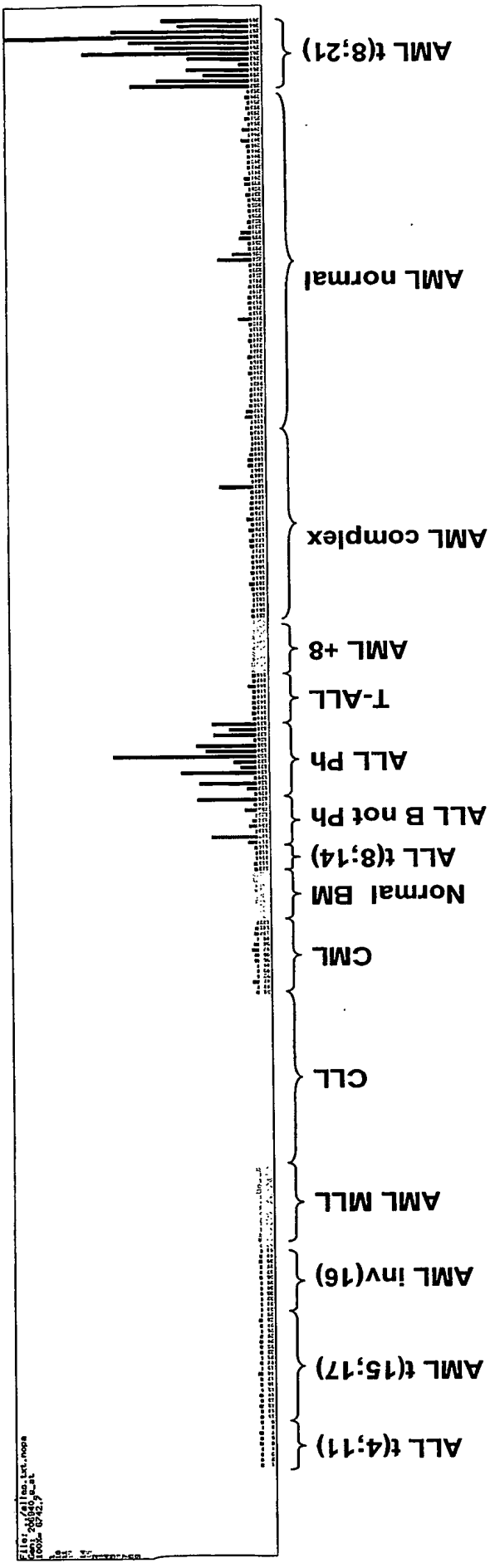


Figure 207

212285_s_at, AGRN, AML t(15;17)

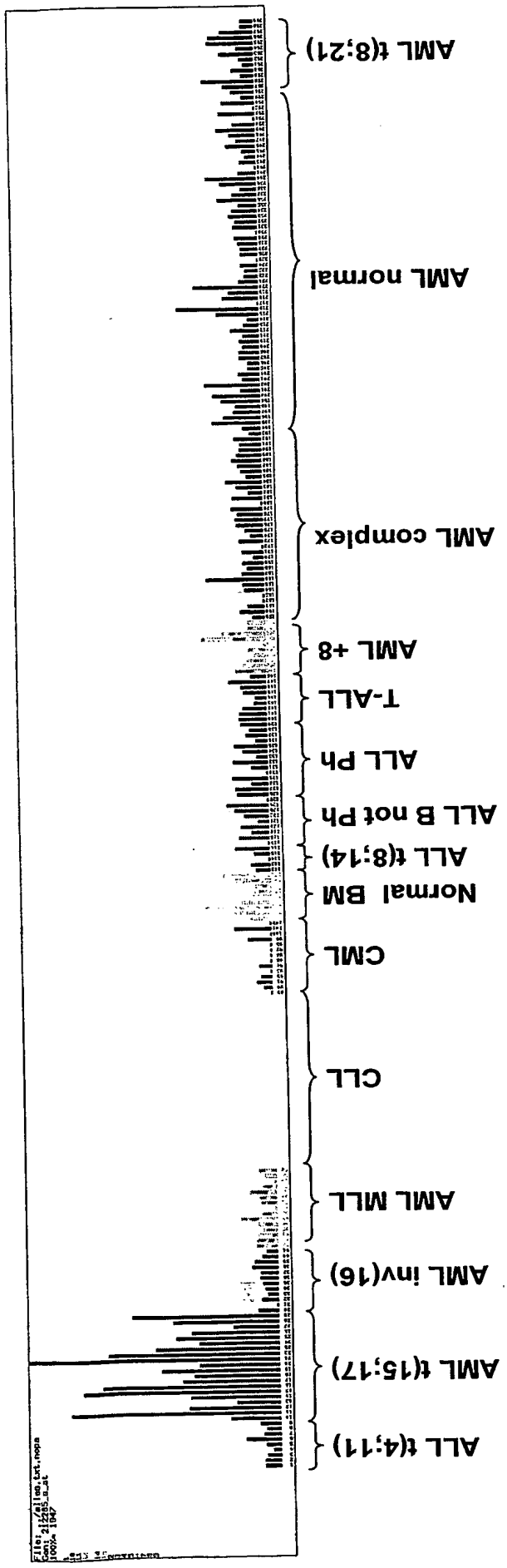


Figure 208

209616_s_at, CES1, AML MLL

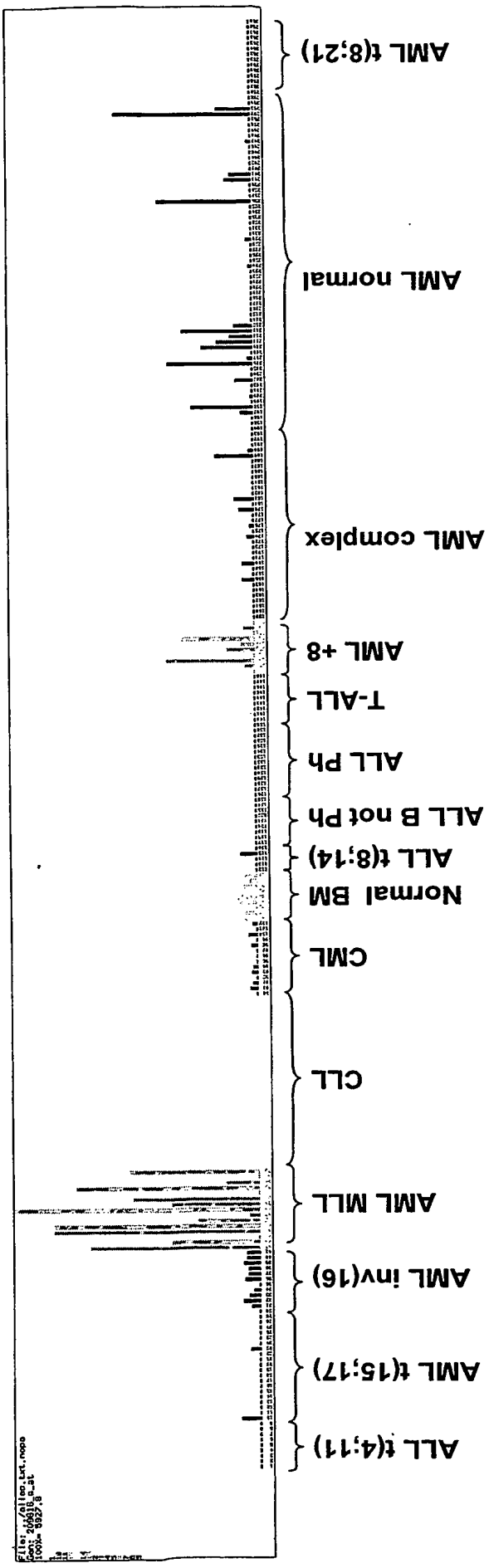


Figure 209

213539_at, CD3D, T-ALL

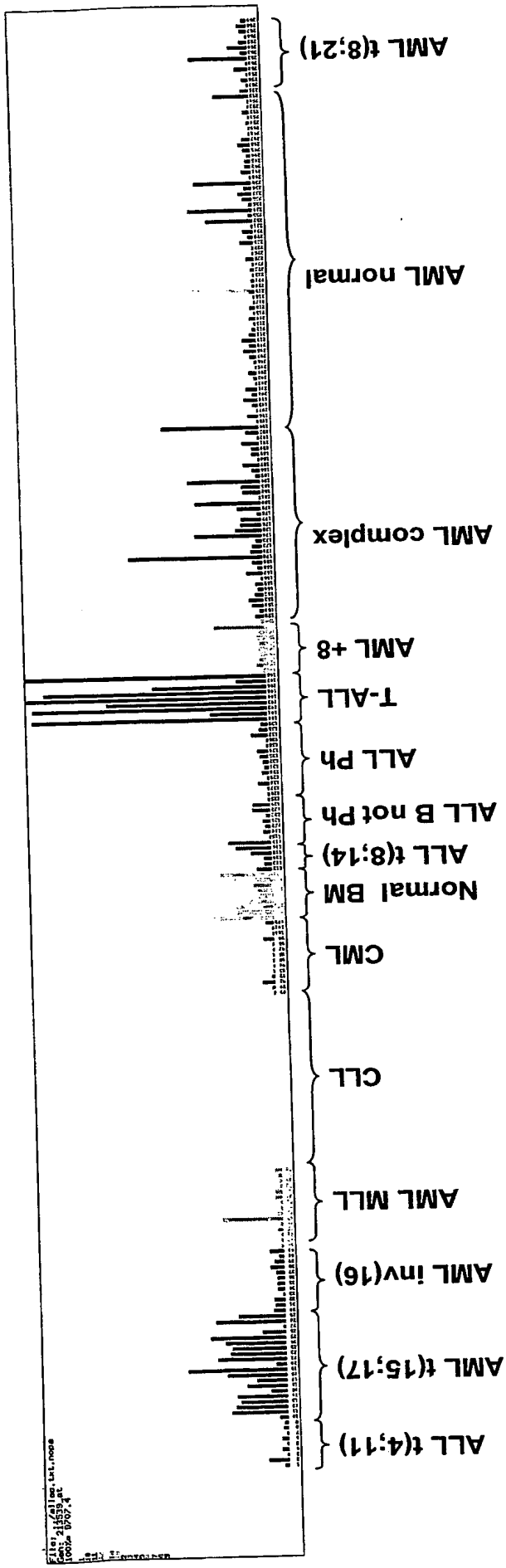


Figure 210

214450_at, CTSW, AML t(15;17)

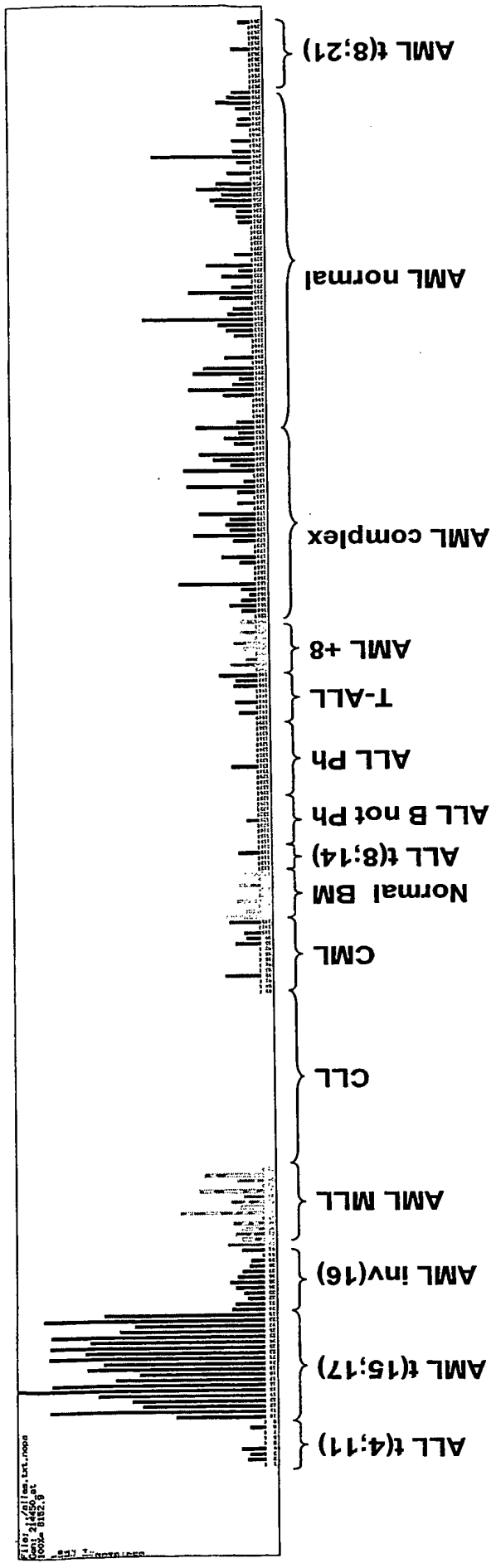


Figure 211

218223_s_at, LOC51177, CML

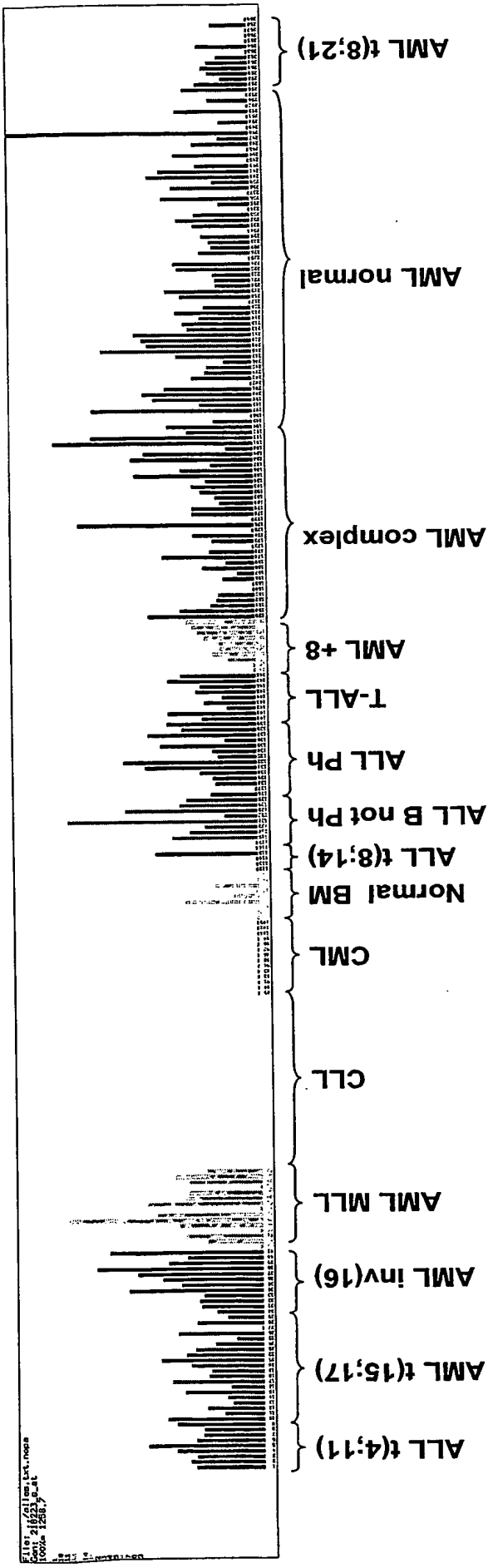


Figure 212

210997_at, HGF, AML t(15;17)

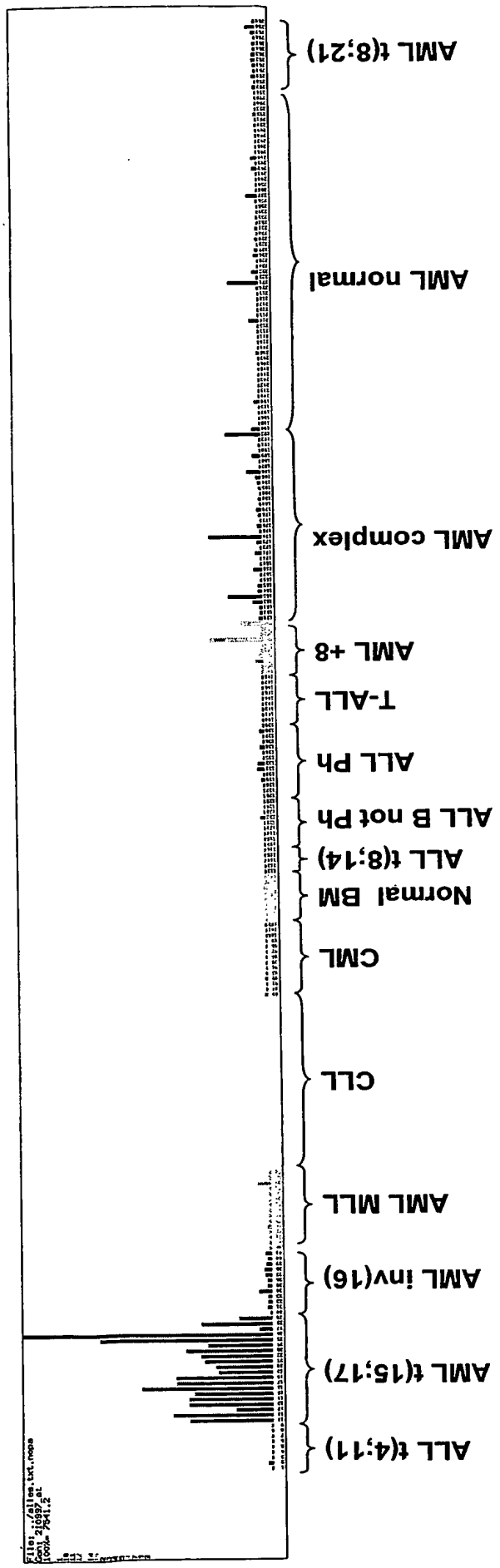


Figure 213

209101_at, CTGF, ALL t(4;11), ALL Ph, T-ALL

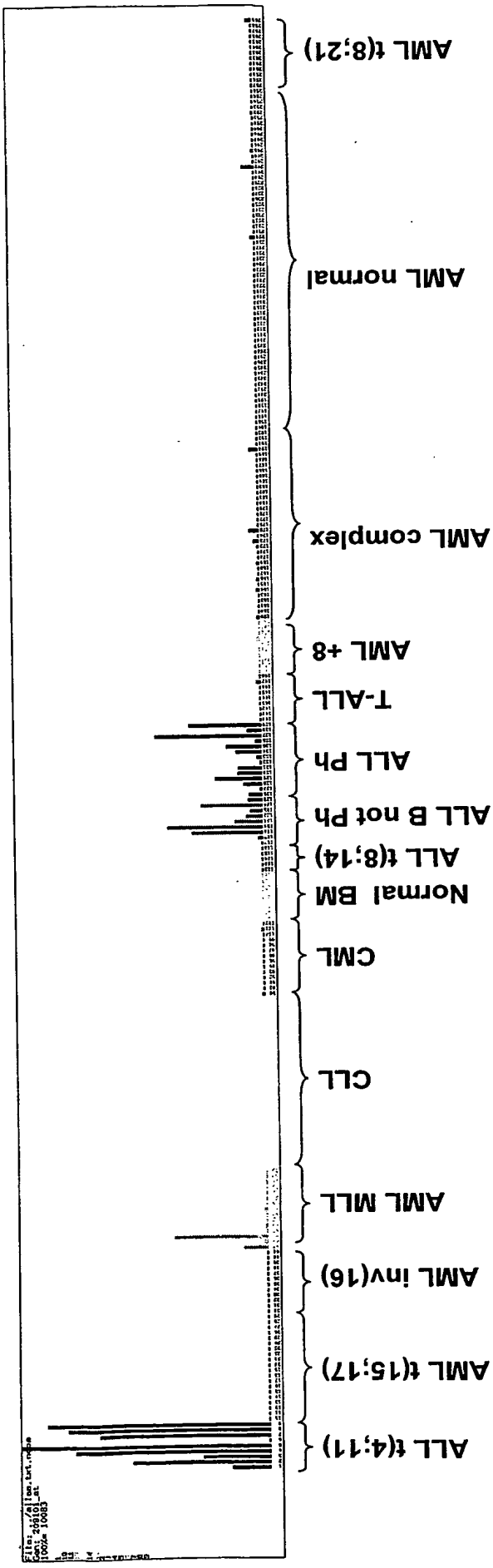


Figure 214

215925_s_at, ALL t(4;11)

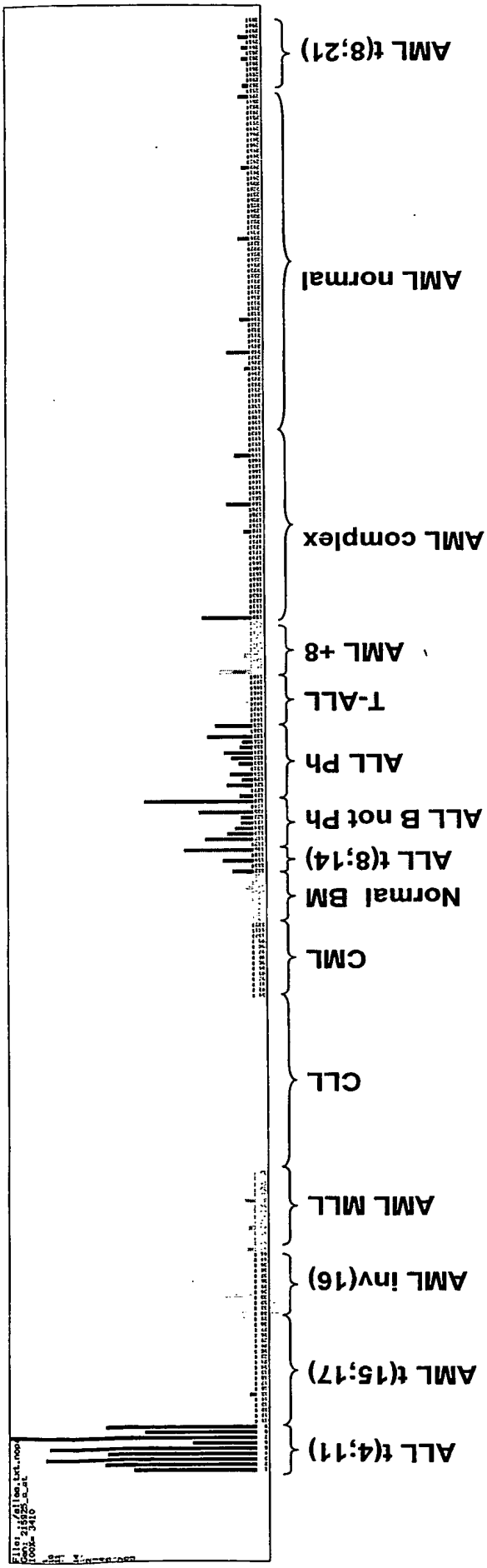


Figure 215

239393_at, ALL t(4;11)

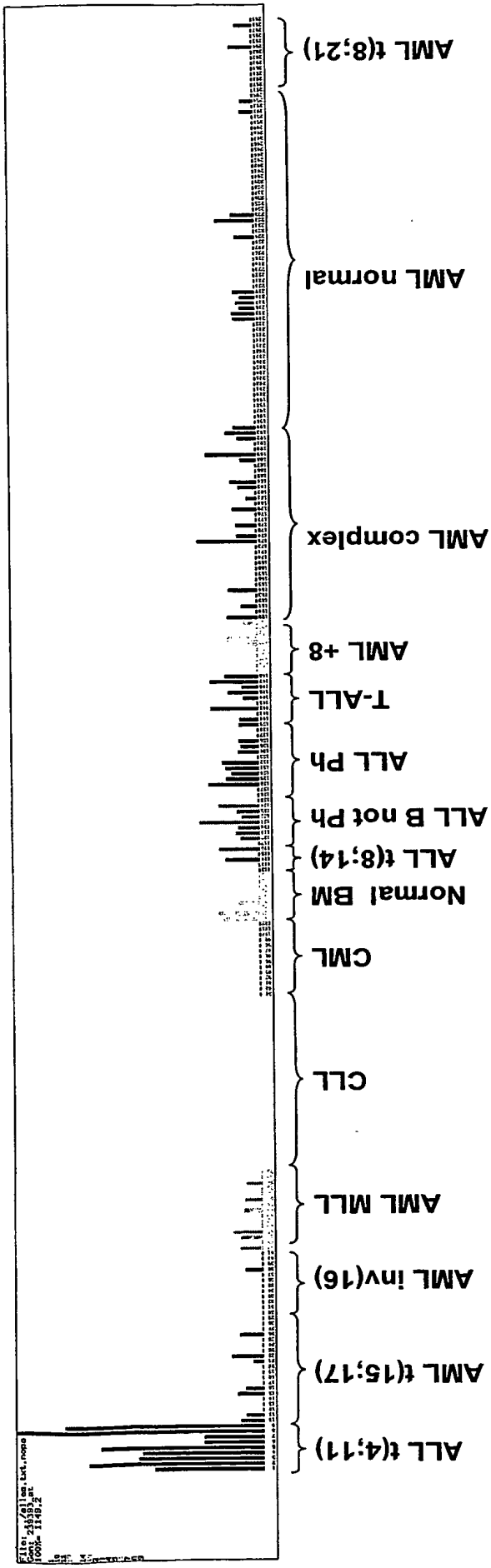


Figure 216

239791_at, HOXB6, AML normal, AML +8

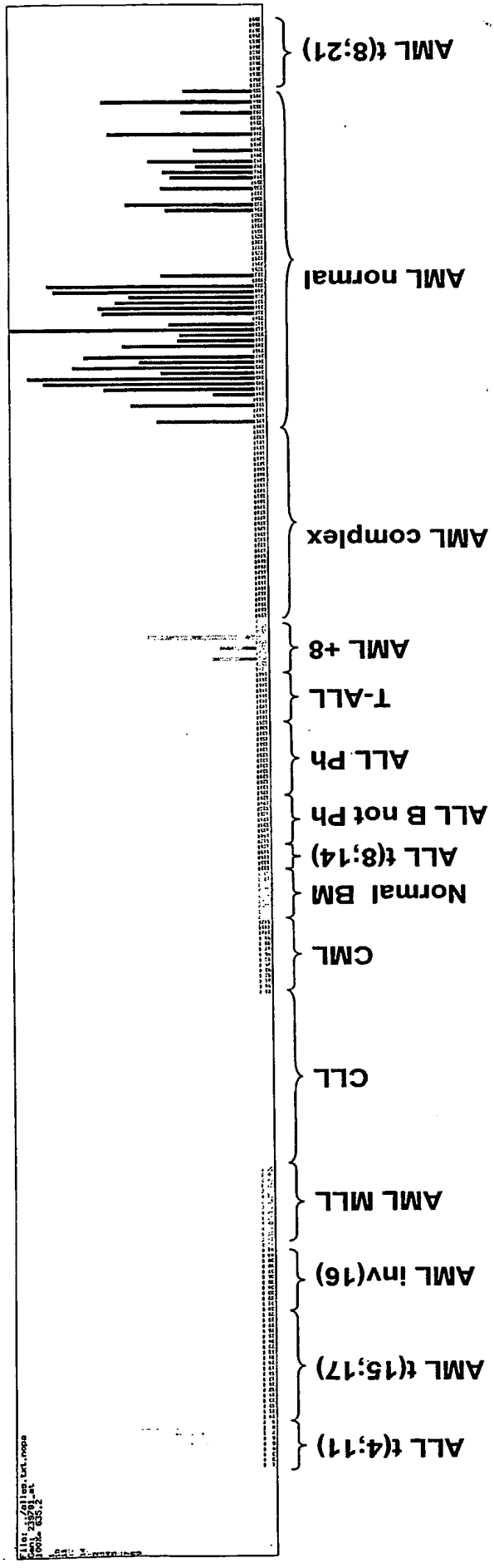


Figure 217

240581_at, ALL t(4;11)

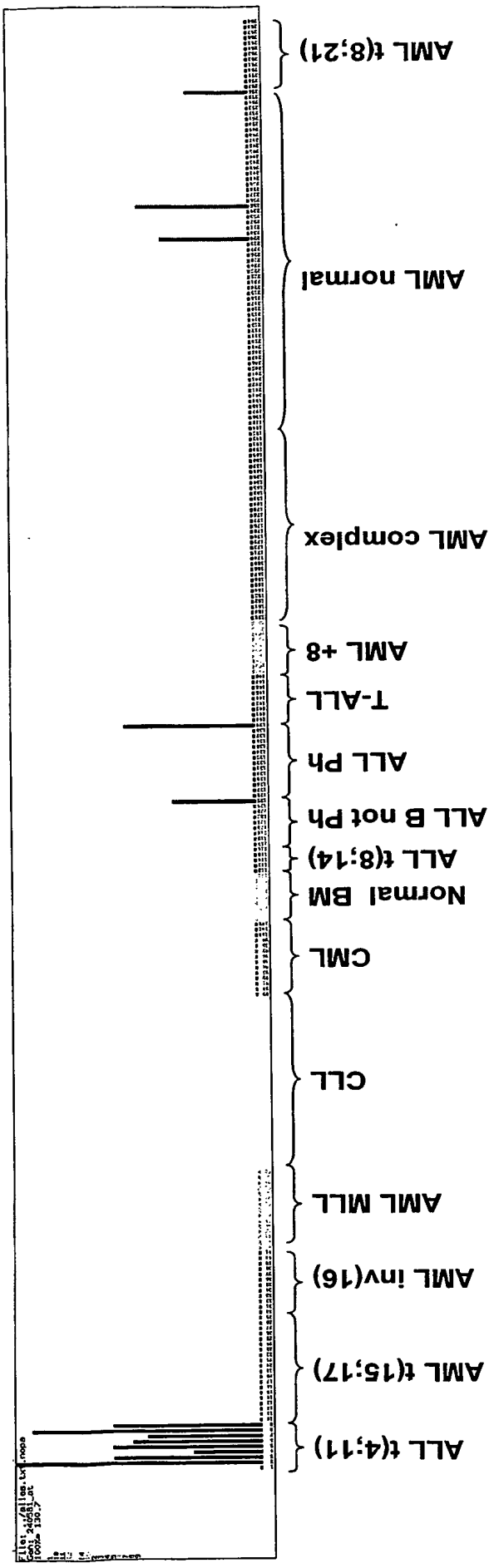


Figure 218

241464_s_at, AML MLL, AML normal, AML +8, AML complex

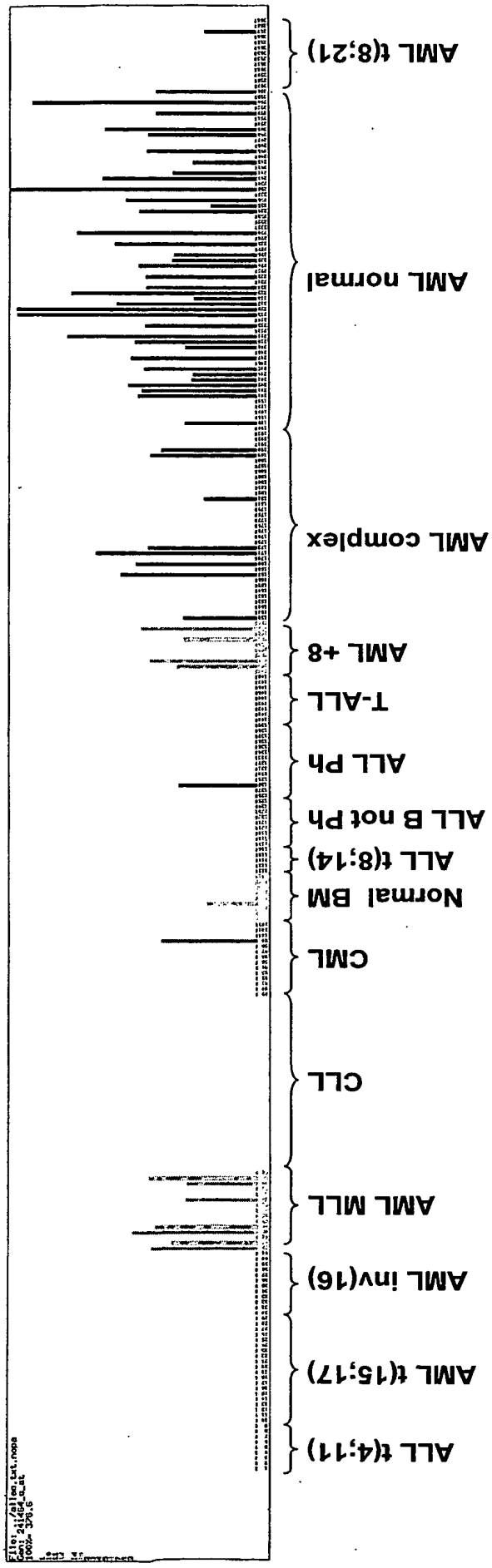


Figure 219

241525_at, AML inv(16)

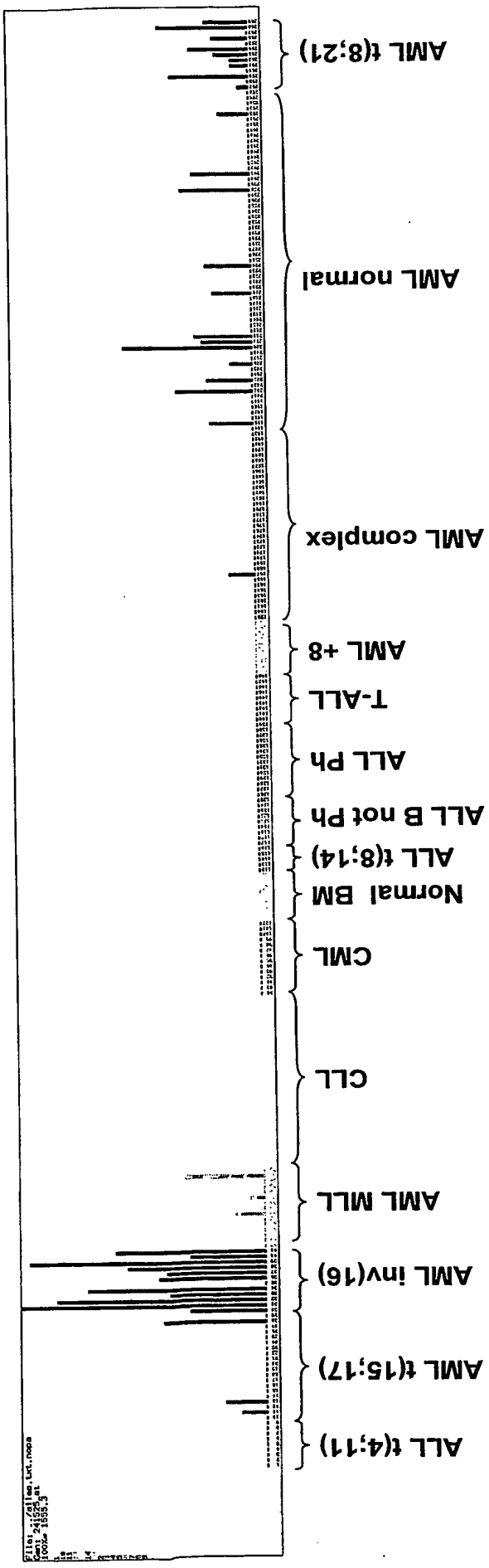


Figure 220

243362_s_at, LEF1, ALL, CLL

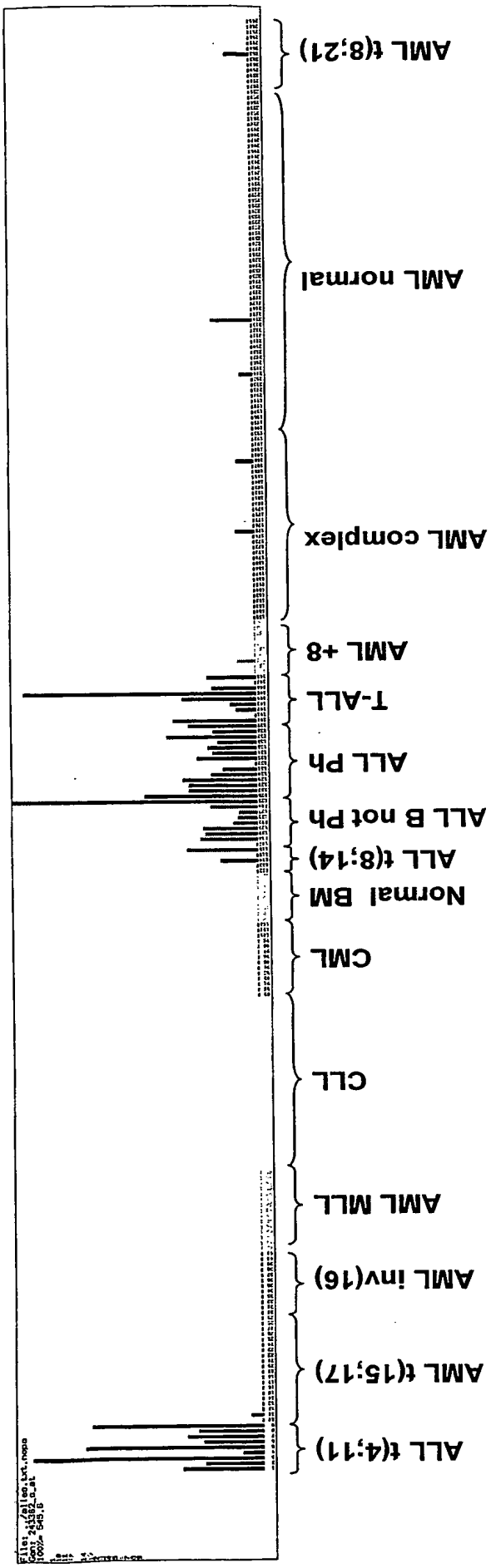


Figure 221

36566_at, CTNS, T-ALL

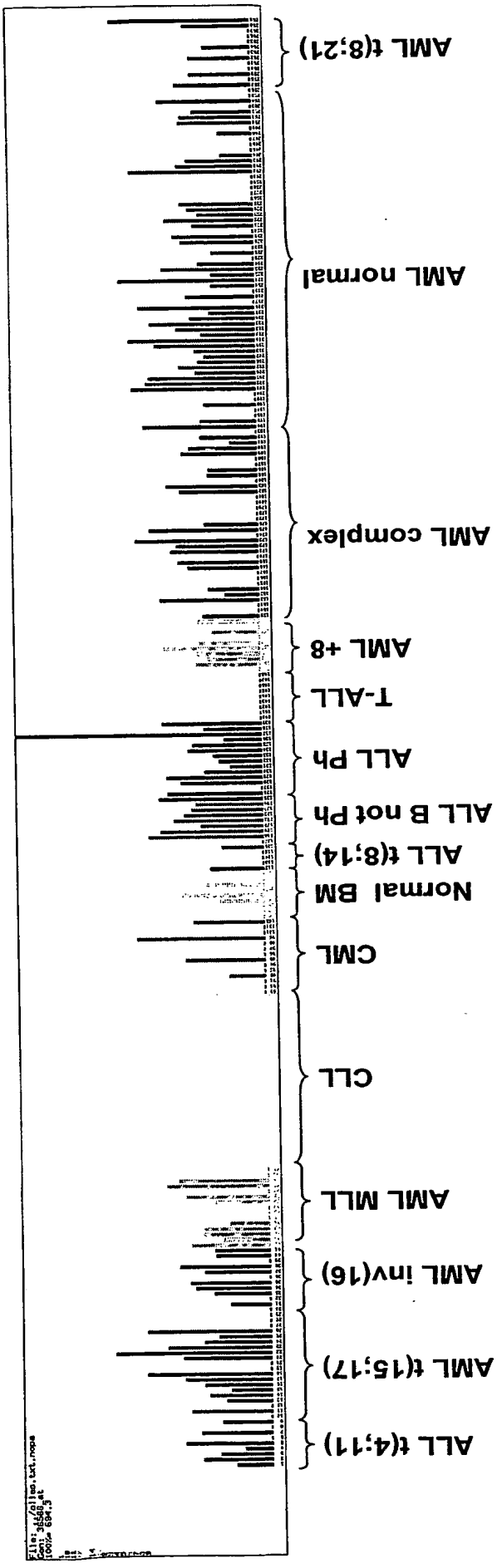


Figure 222

38487_at, FLJ12442, AML t(15;17)

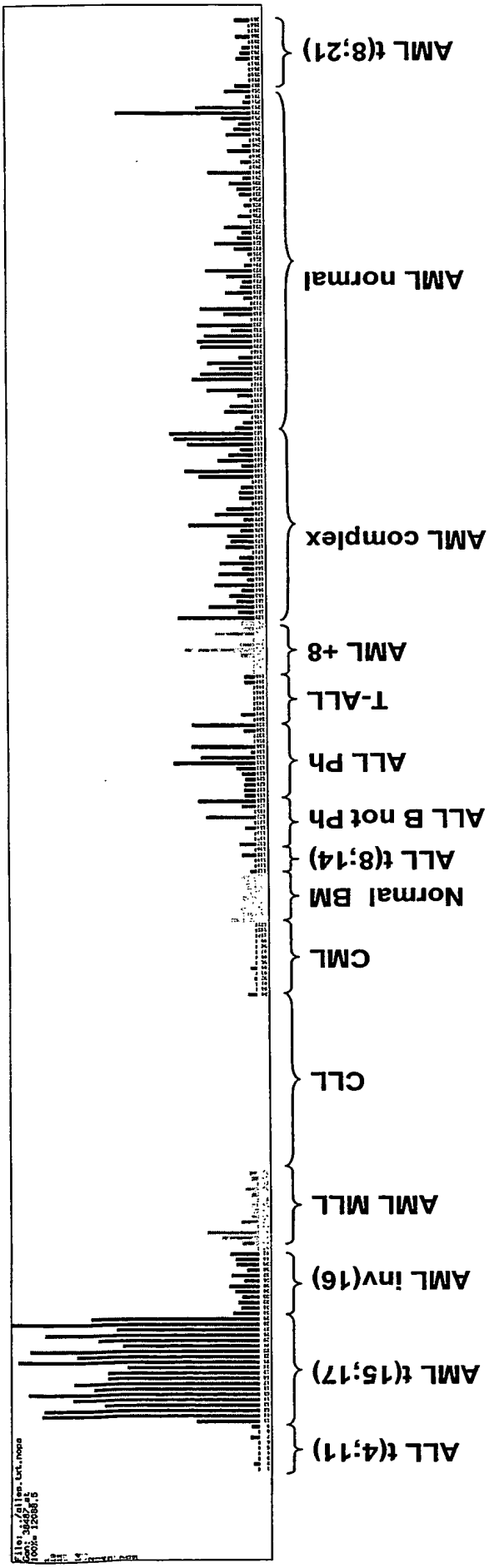


Figure 223

224794_s_at, LOC51148, AML t(15;17)

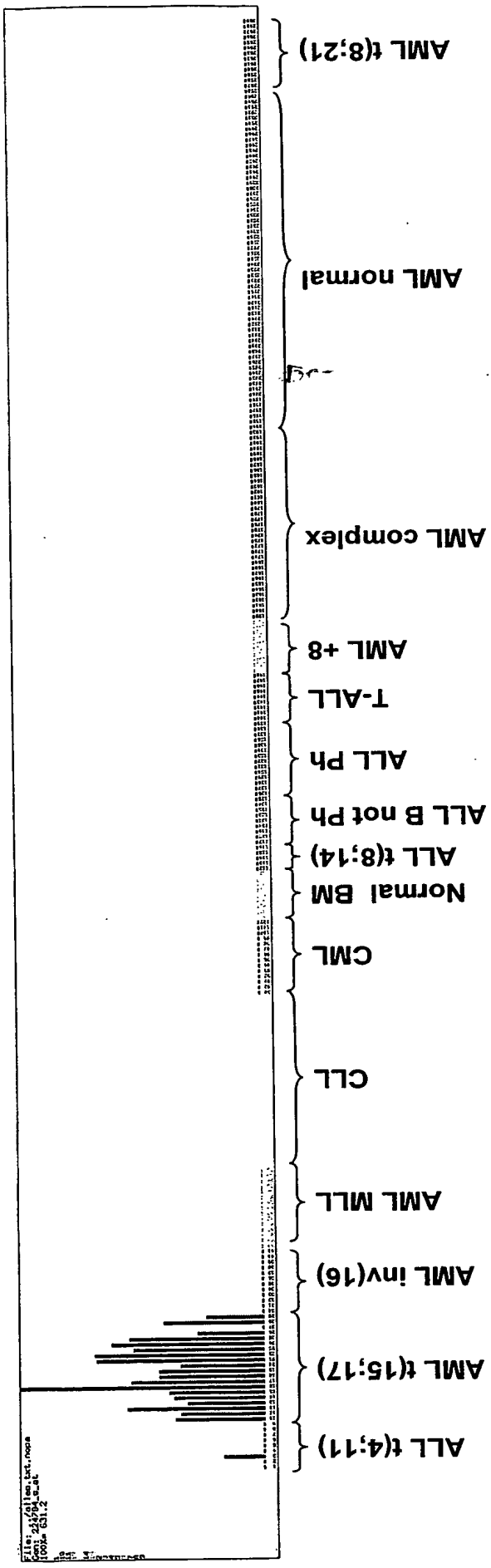


Figure 224

228904_at, AML normal, AML +8, AML complex

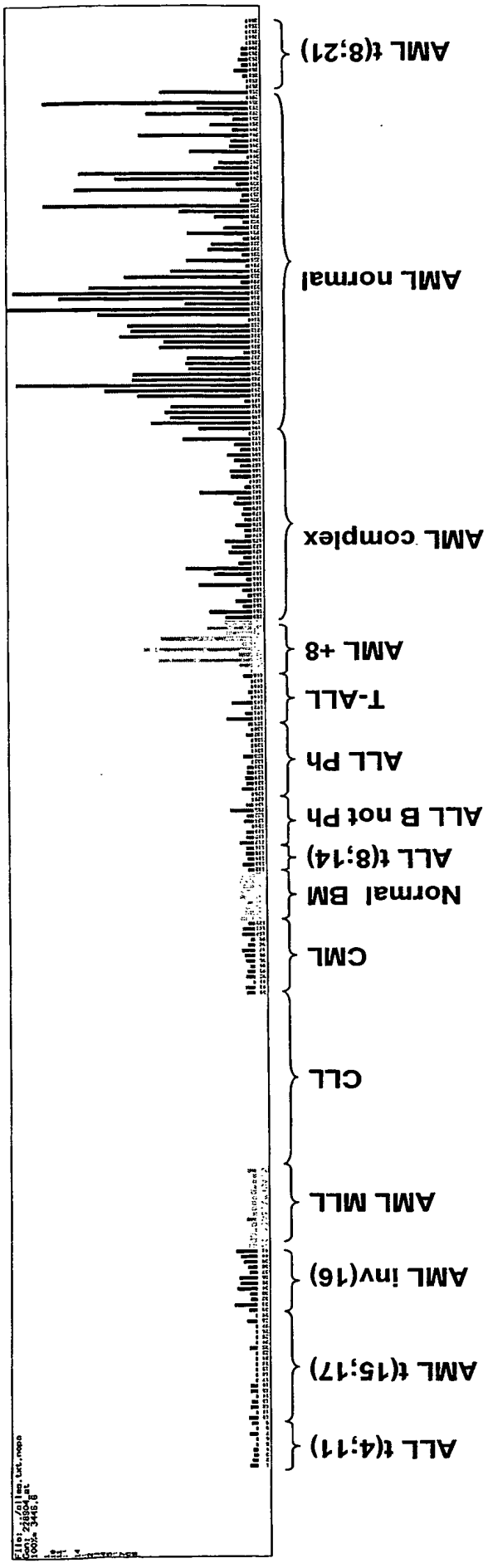


Figure 225

224520_s_at, MGC13168, ALL t(8;14)

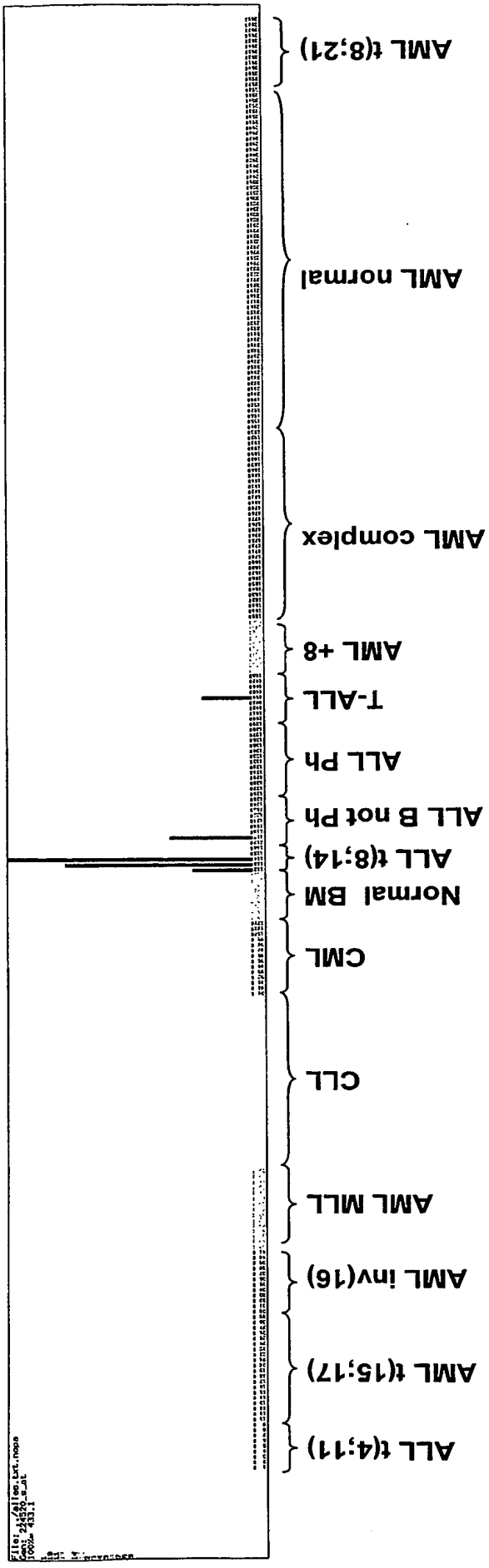


Figure 226

226496_at, ALL, CLL

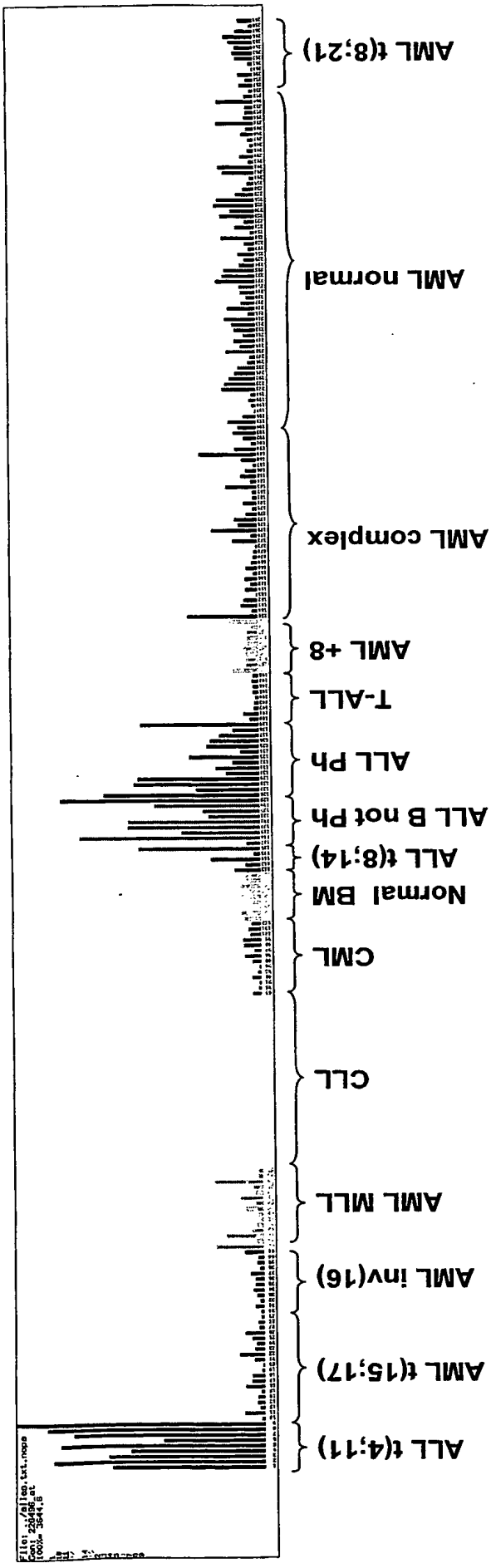


Figure 227

222166_at, AML +8

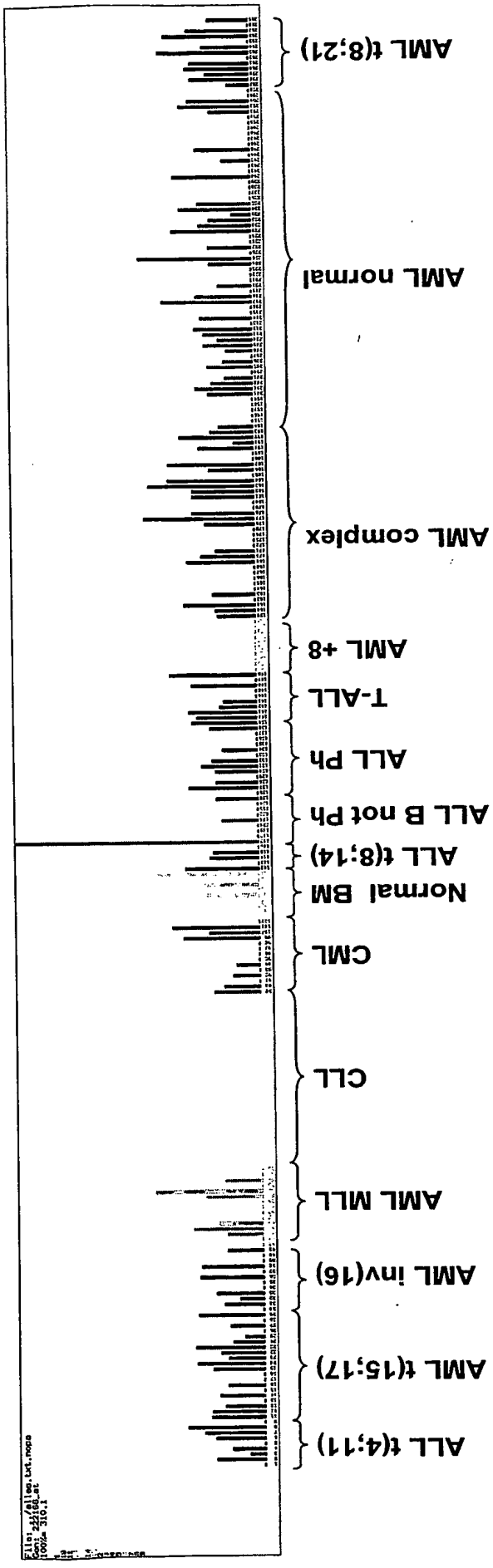


Figure 228

225660_at, SEMA6A, ALL B not Ph, ALL Ph

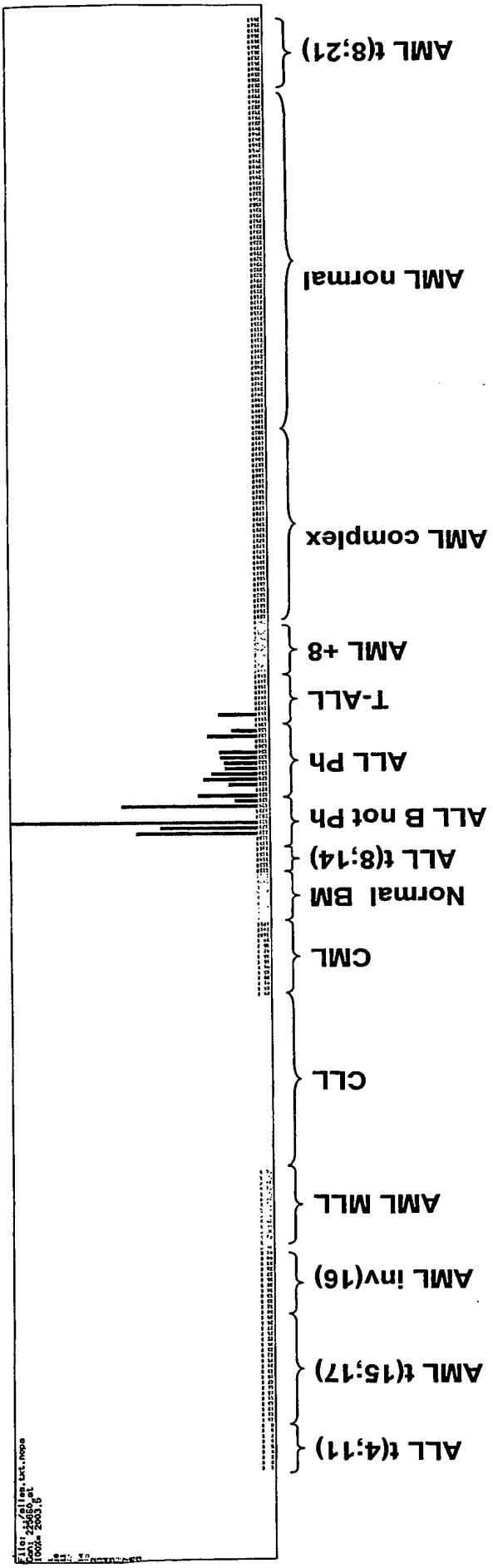


Figure 229

228827_at, AML t(8;21)

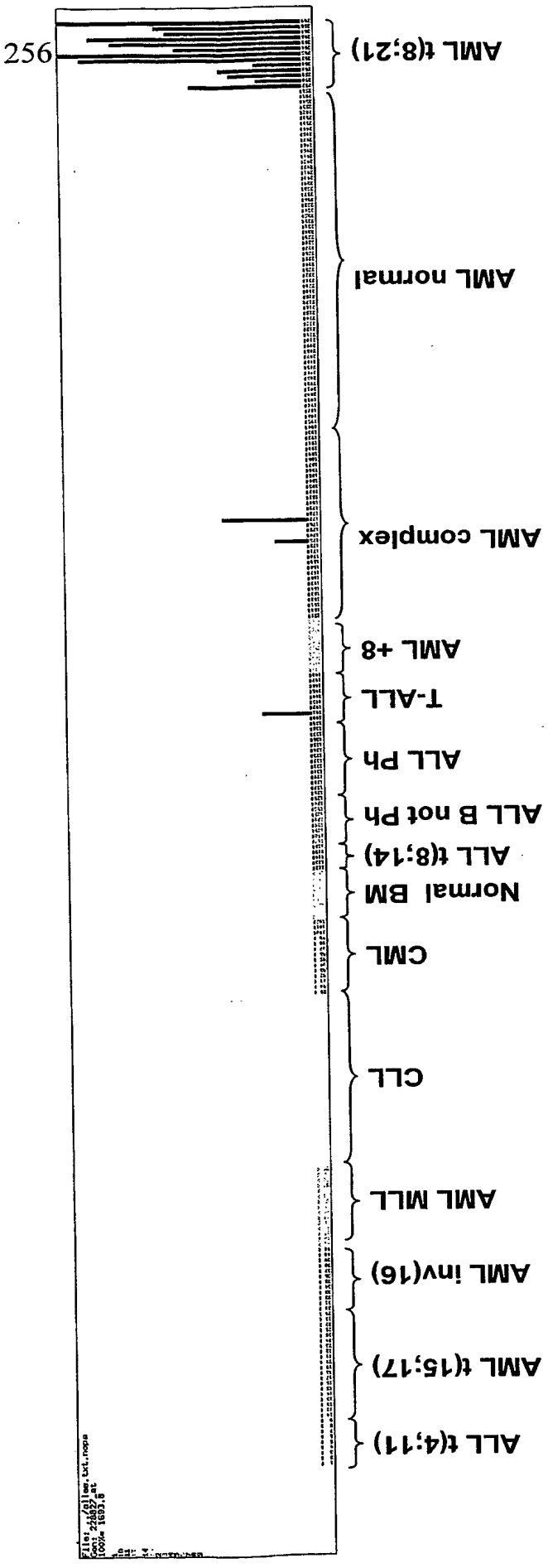


Figure 230

236301_at, CLL

Figure 231

236892_s_at, HOXB6, AML normal, AML +8, AML complex

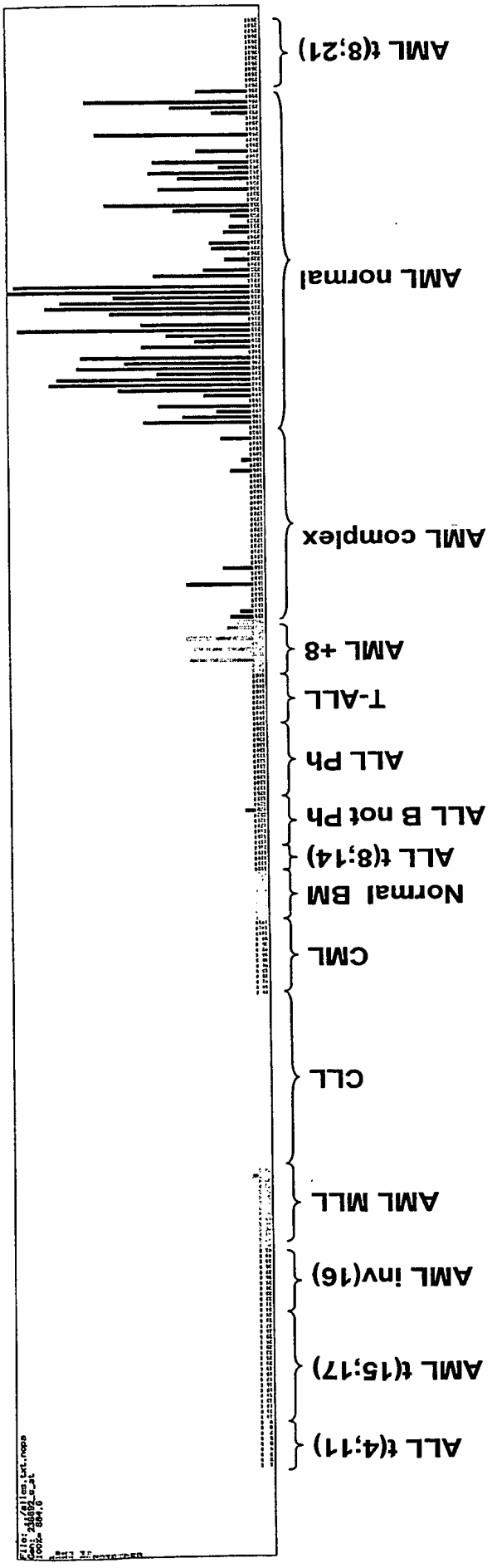


Figure 232

239214_at, ALL t(4;11)

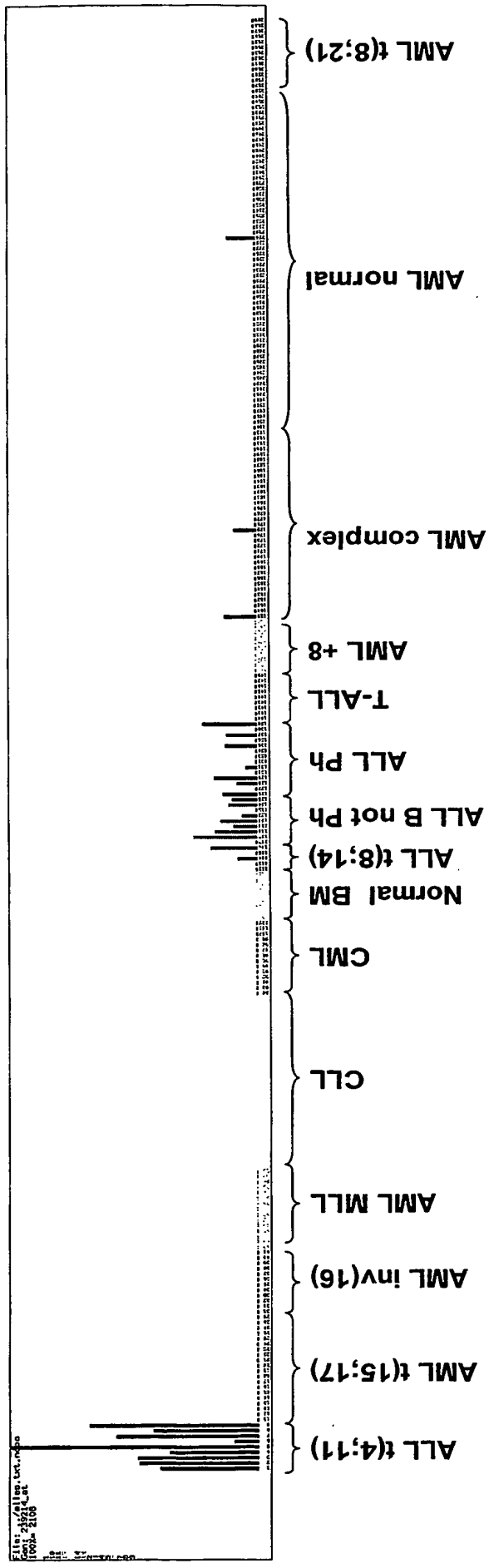


Figure 233

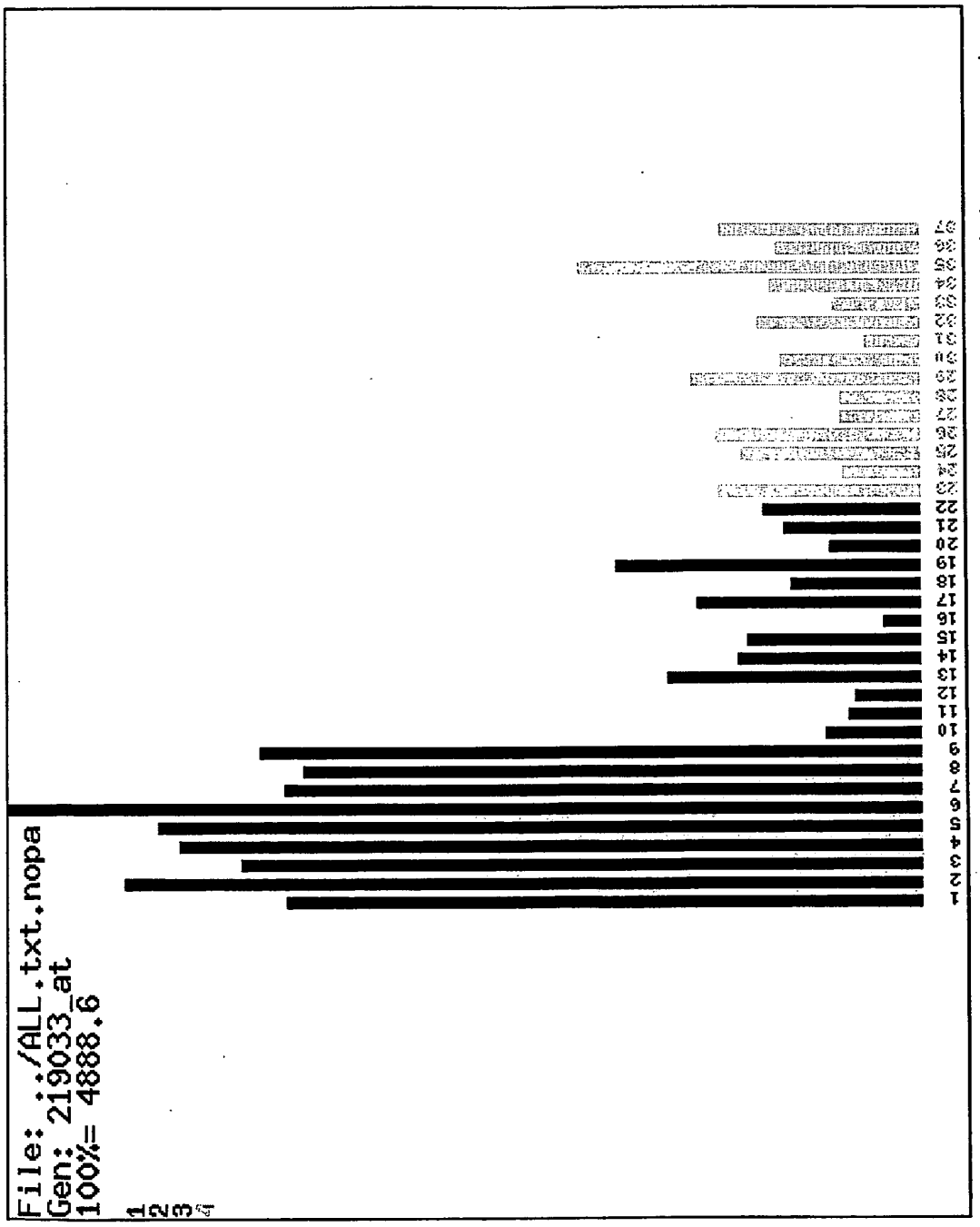

219033_at, FLJ21308, ALL t(4;11) vs. all other
File: ../ALL.txt.nopa
Gen: 219033_at
100%= 4888.6
t(4;11)
t(8;14)
ALLBnotPh
ALLPh
T-ALL

Figure 234

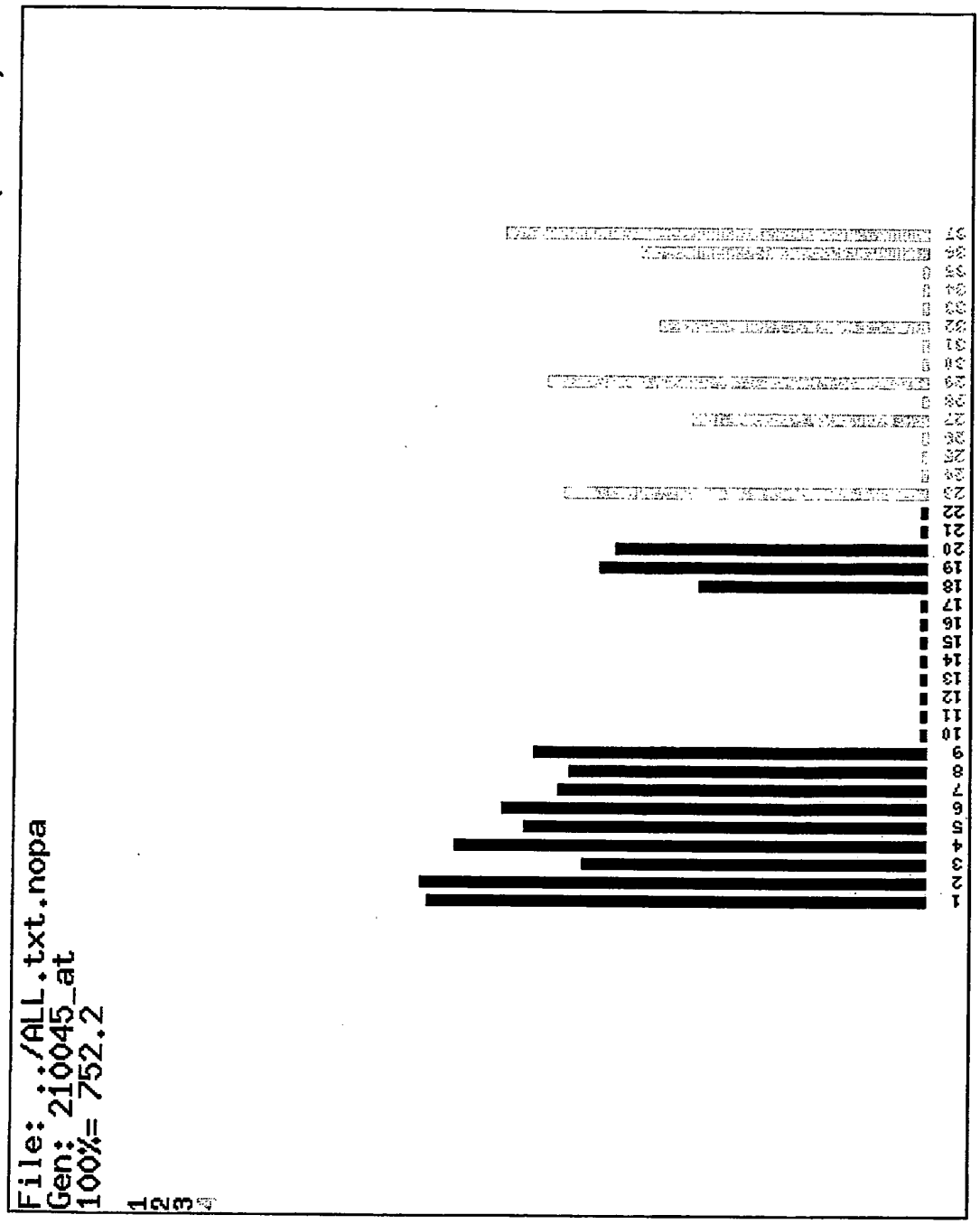


Figure 235

BNSDOCID: <WO_____03039443A2_I_>

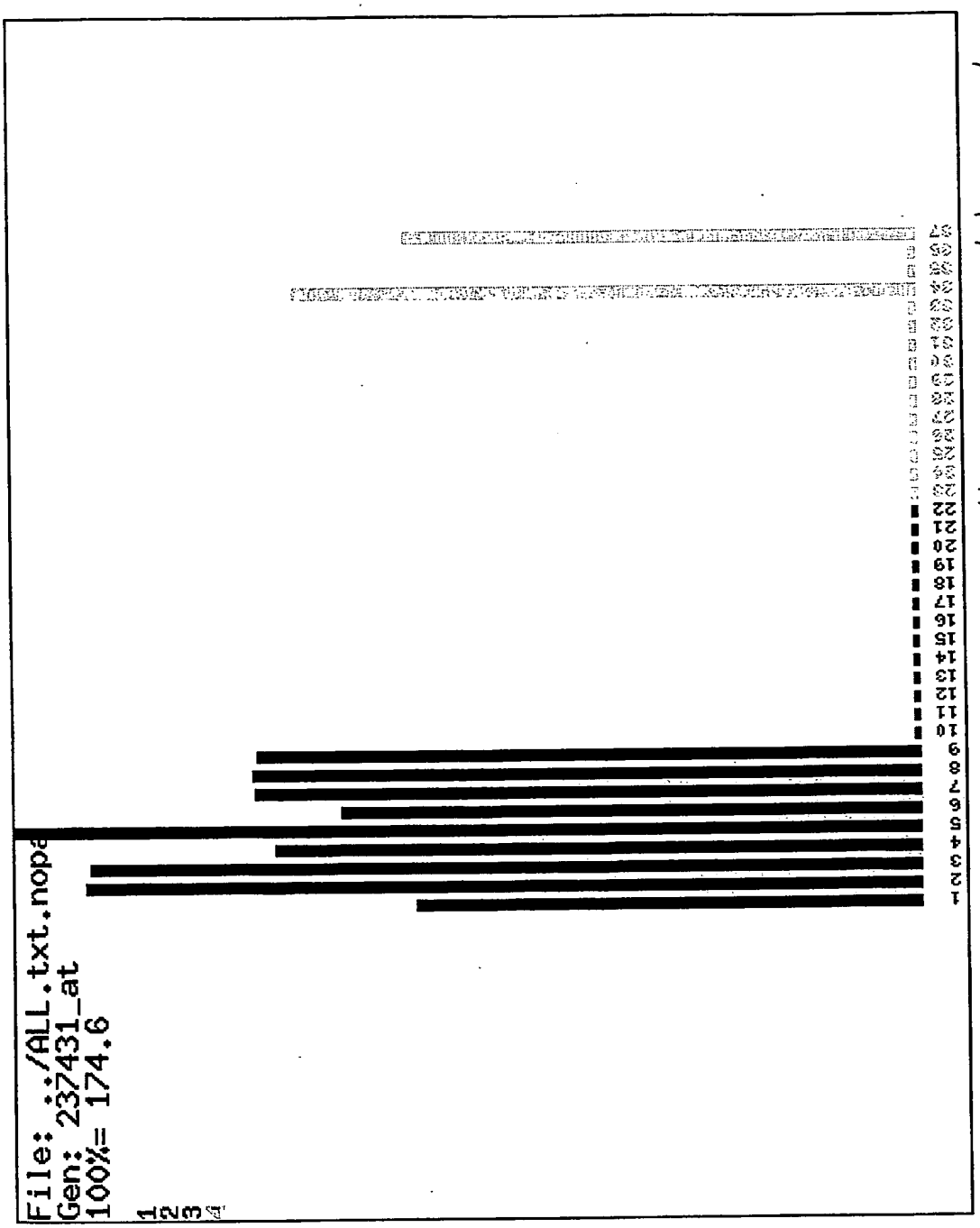

237431_at, ALL t(4;11) vs. ALL B not Ph
File: ../ALL.txt.nopa
Gen: 237431_at
100%= 174.6
1
2
3
4
t(4;11)
t(8;14)
ALLBnotPh
ALLPh
T-ALL

Figure 236

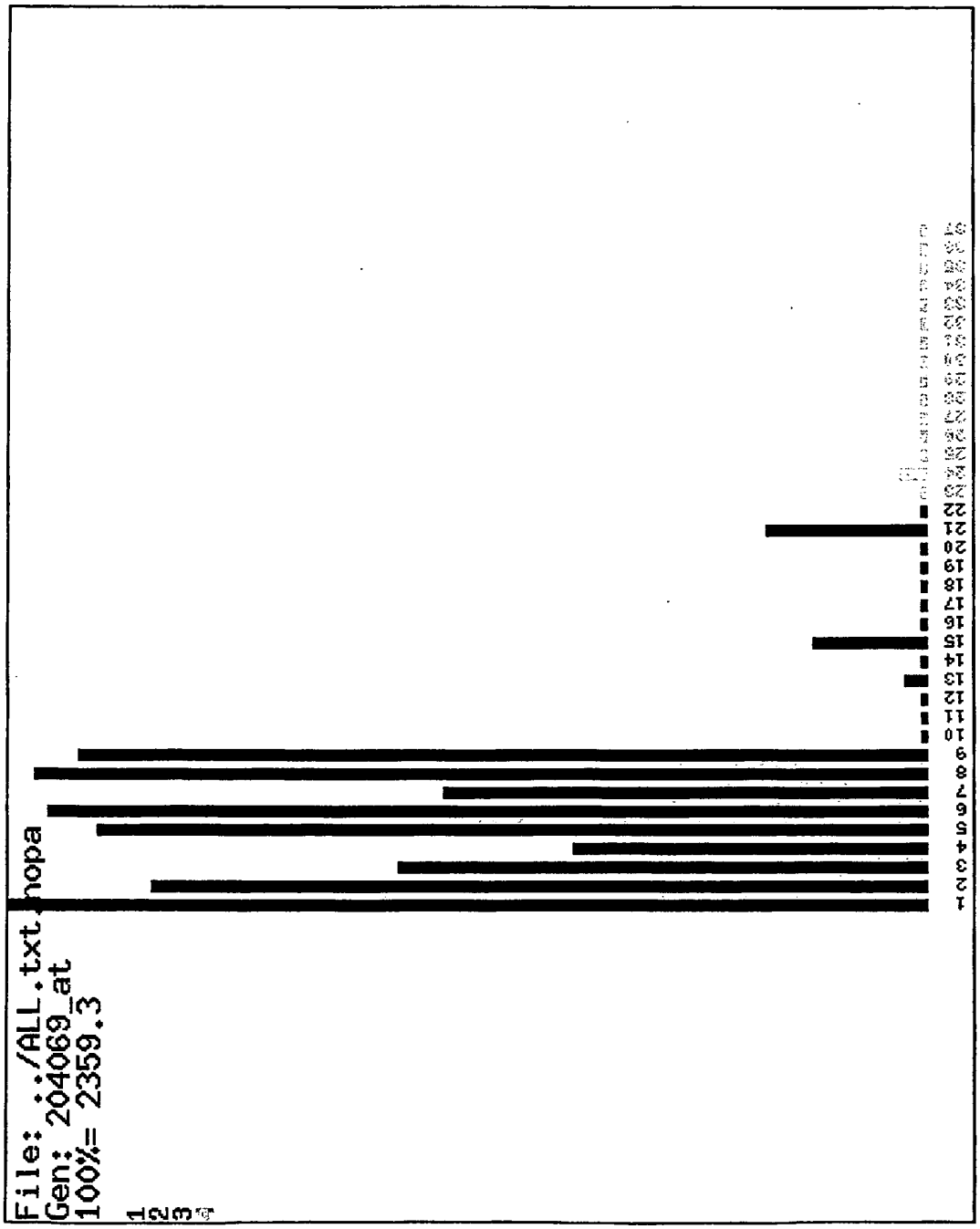


Figure 237

BNSDOCID: <WO_____03039443A2_I_>

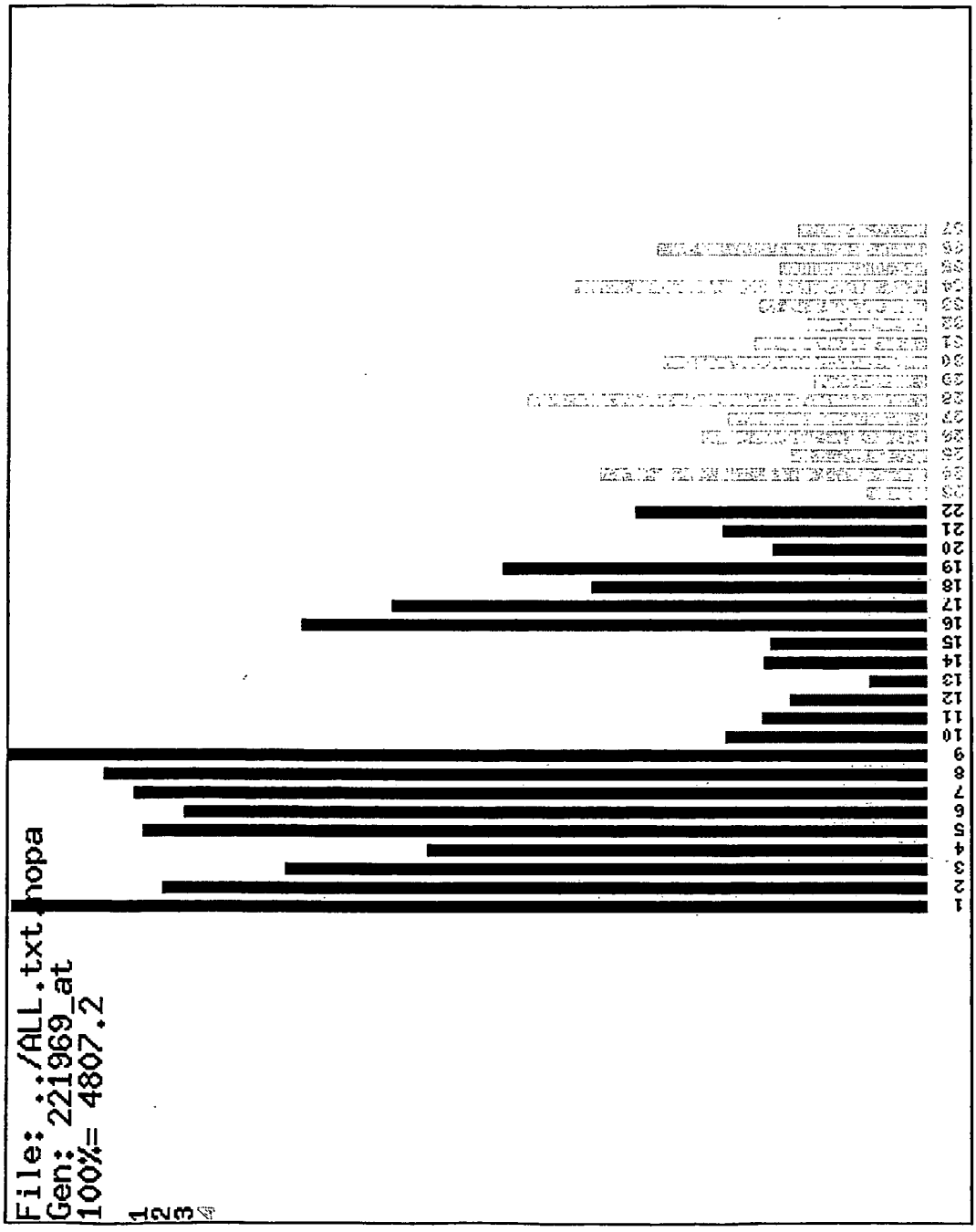

221969_at, PAX5, ALL t(4;11) vs. T-ALL
File: ../ALL.txt
Gen: 221969_at
100%= 4807.2
1 2 3
t(4;11) t(8;14) ALLBnotPh ALLPh T-ALL

Figure 238

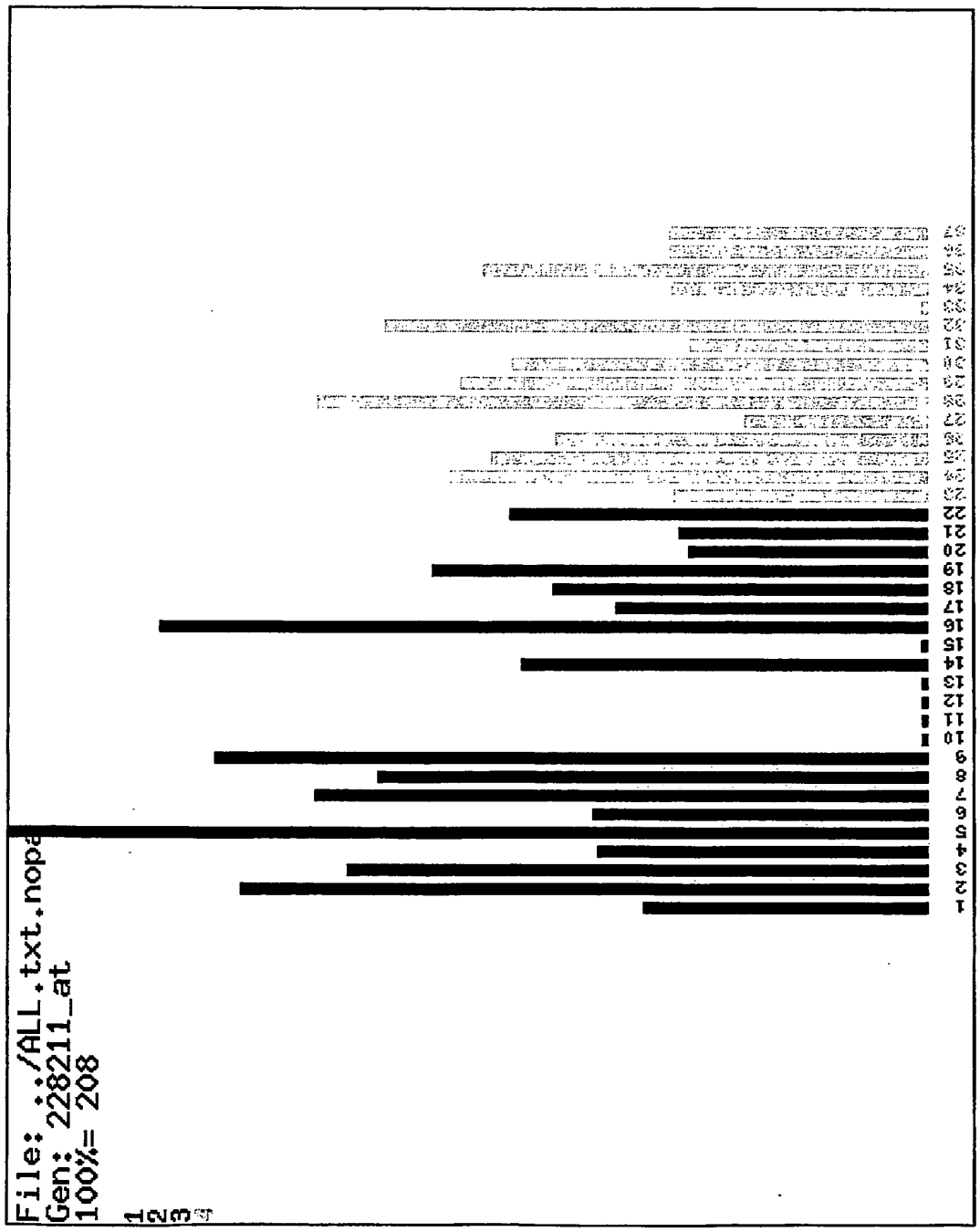
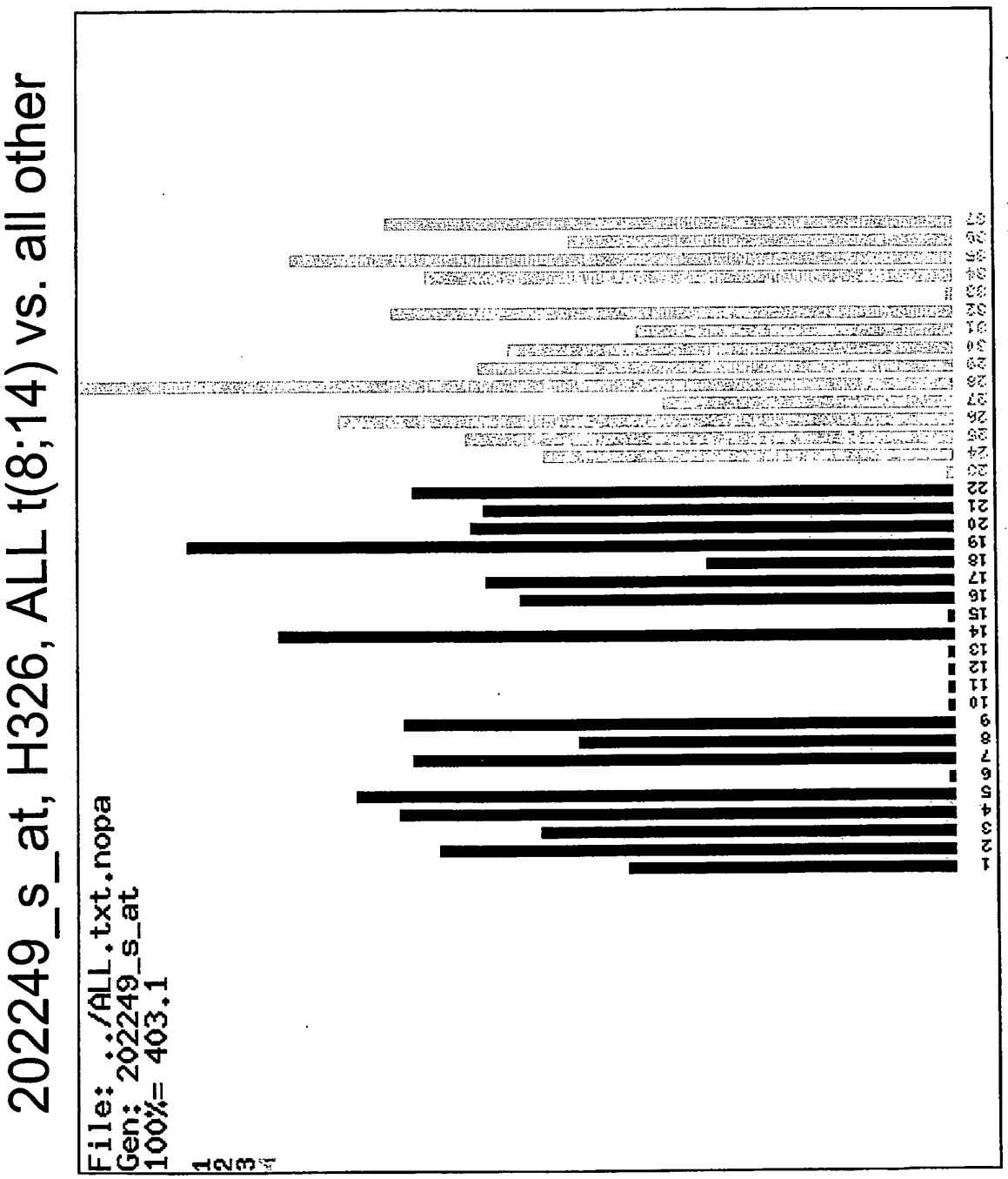

228211_at, ALL t(8;14) vs. all other
File: ../ALL.txt.nopa
Gen: 228211_at
100%= 208
t(4;11) t(8;14) ALLBnotPh ALLPh T-ALL

Figure 239


202249_s_at, H326, ALL t(8;14) vs. all other
File: ../ALL.txt.nopa
Gen: 202249_s_at
100%= 403.1
1 2 3 4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

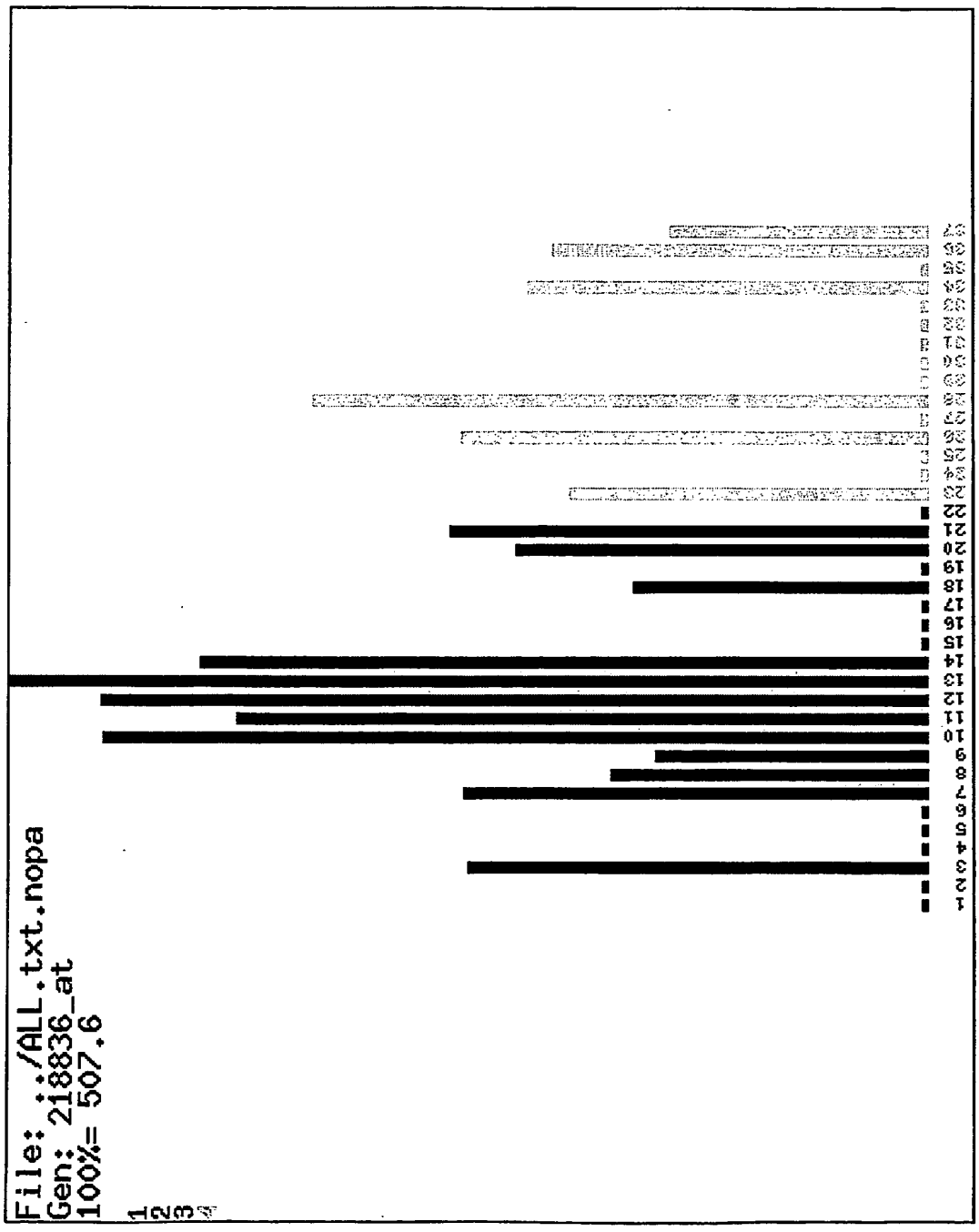

218836_at, FLJ22638, ALL t(8;14) vs. all other
File: ../ALL.txt.nopa
Gen: 218836_at
100%= 507.6
1 2 3
t(4;11) t(8;14) ALLBnotPh ALLPh T-ALL

Figure 241

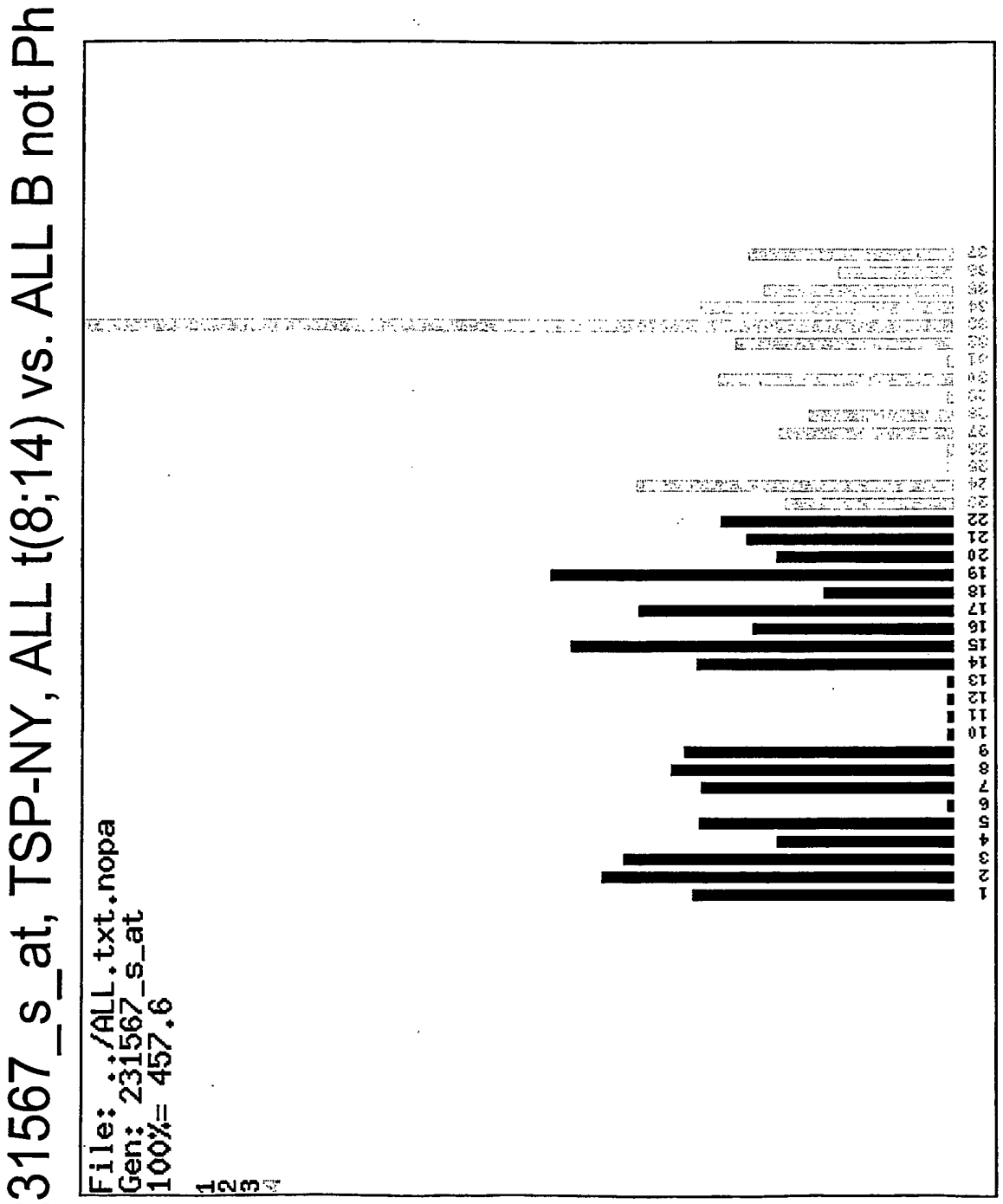

231567_s_at, TSP-NY, ALL t(8;14) vs. ALL B not Ph
File: ../ALL.txt.nopa
Gen: 231567_s_at
100%= 457.6
1
2
3
t(4;11)
t(8;14) ALLBnotPh
ALLPh
T-ALL

Figure 242

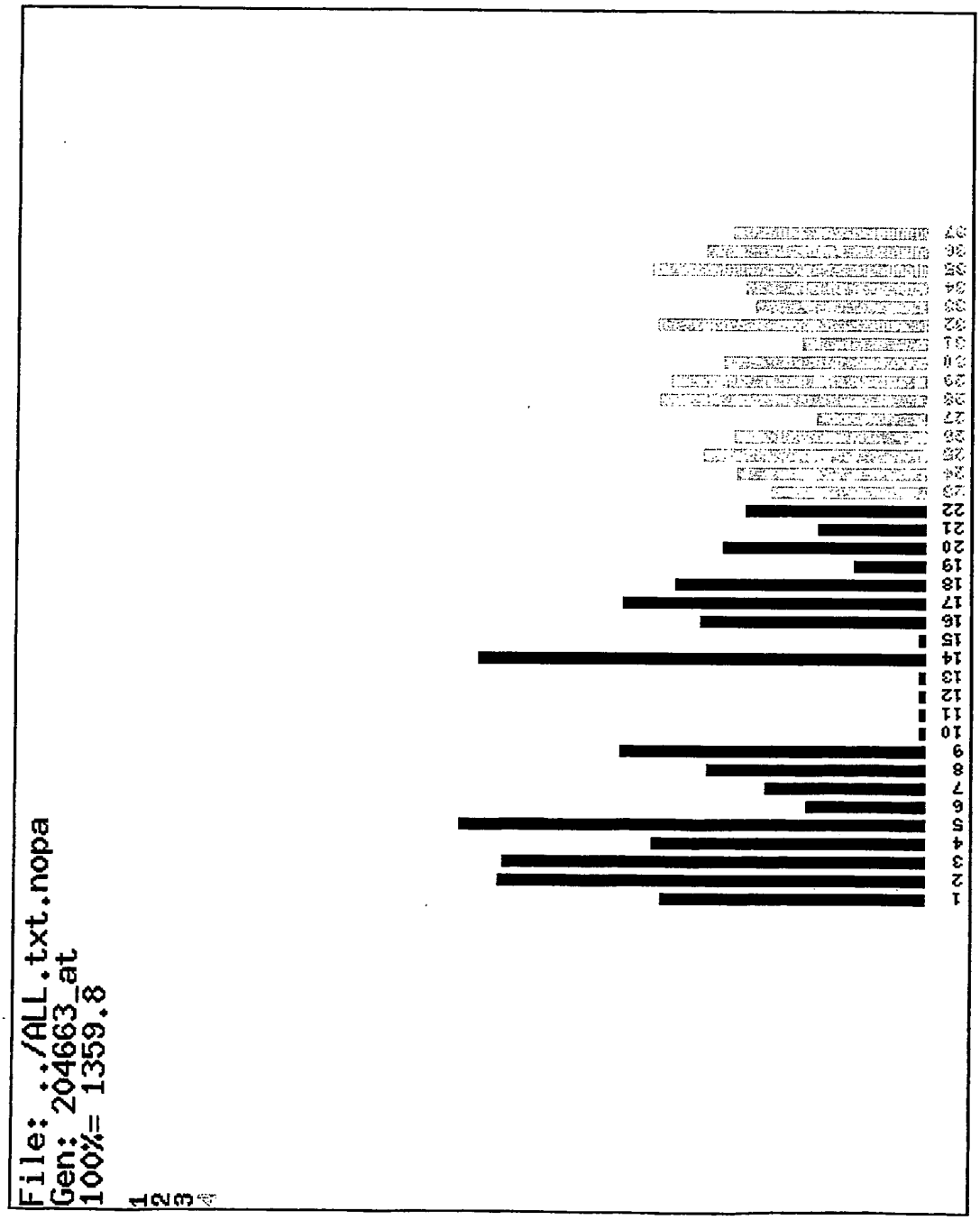


Figure 243

BNSDOCID: <WO_____03039443A2_I_>

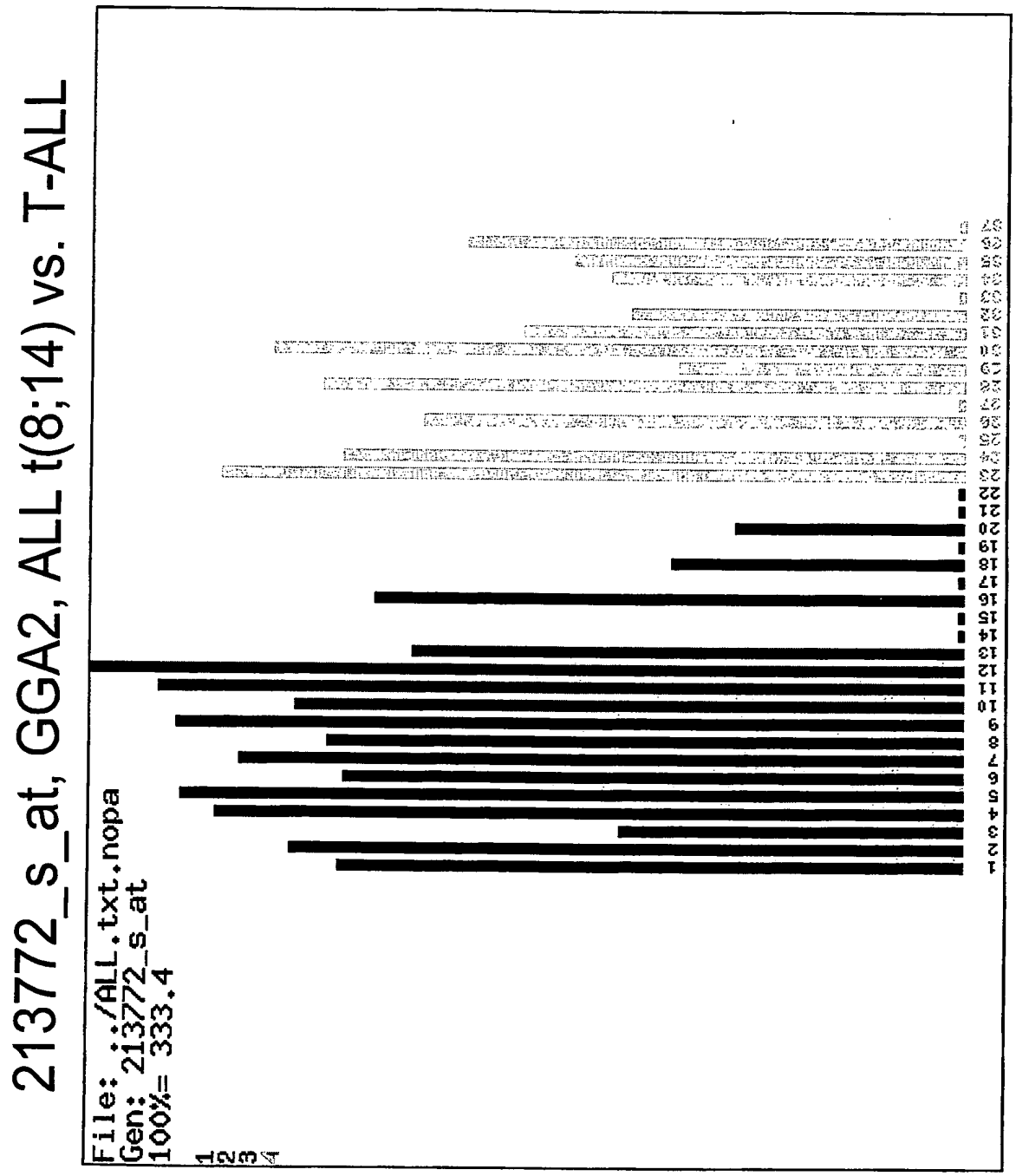

213772_s_at, GGA2, ALL t(8;14) vs. T-ALL
File: ../ALL.txt.nopa
Gen: 213772_s_at
100%= 333.4
t(4;11)
t(8;14) ALLBnotPh
ALLPh
T-ALL

Figure 244

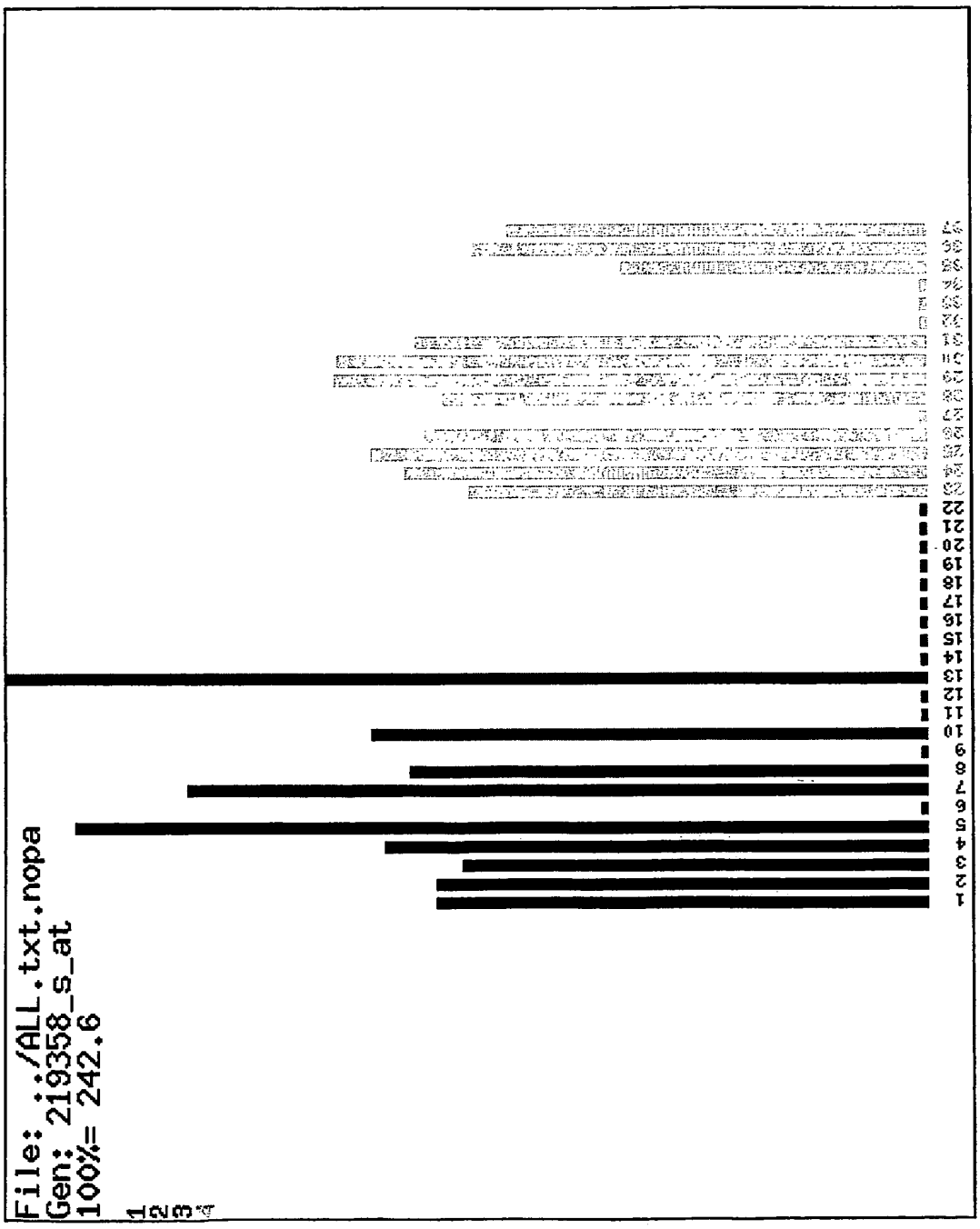


Figure 245

BNSDOCID: <WO_____03039443A2_I_>

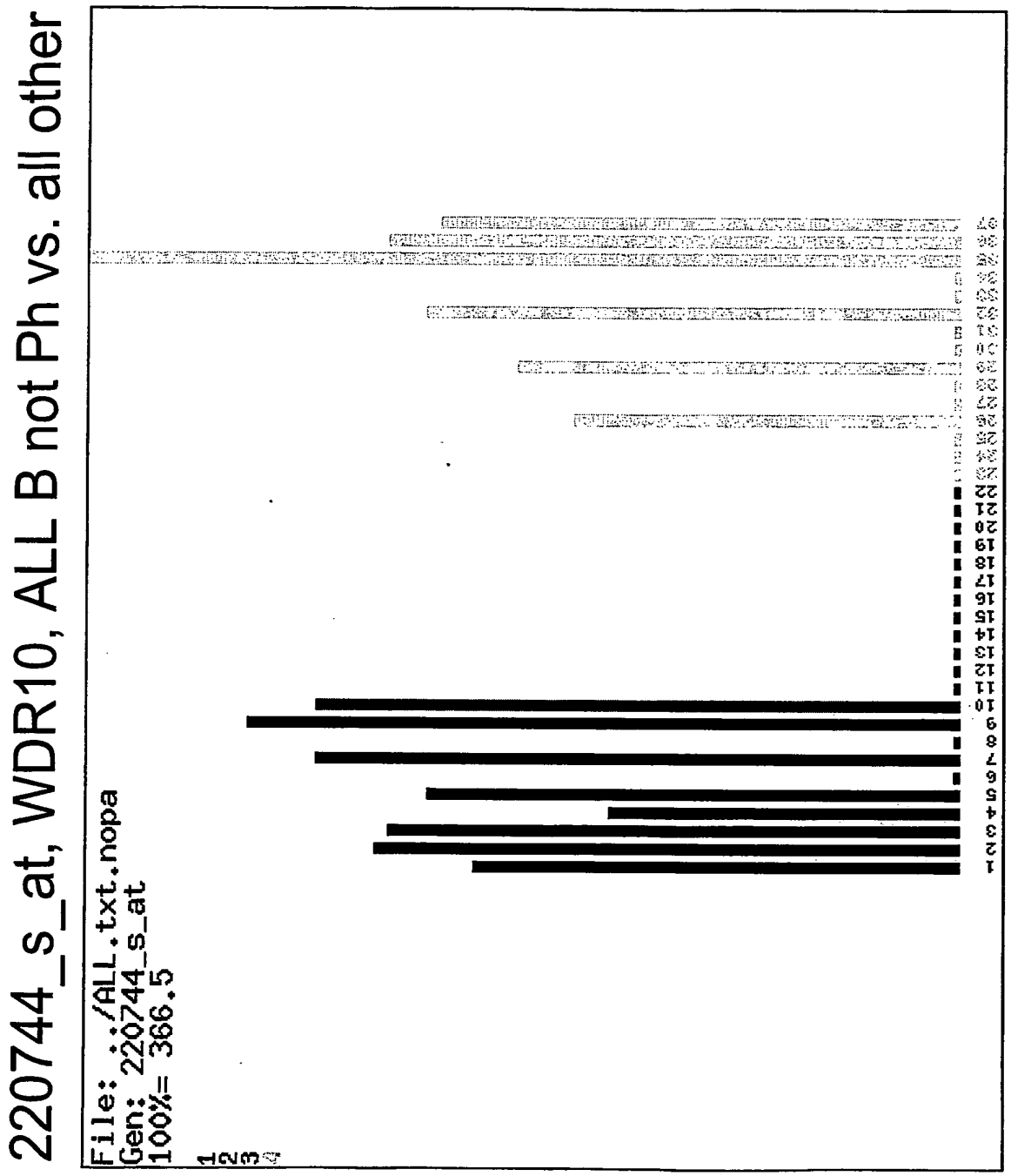

220744_s_at, WDR10, ALL B not Ph vs. all other
File: ../ALL.txt.nopa
Gen: 220744_s_at
100%= 366.5
1 2 3
t(4;11)
t(8;14) ALLBnotPh
ALLPh
T-ALL

Figure 246

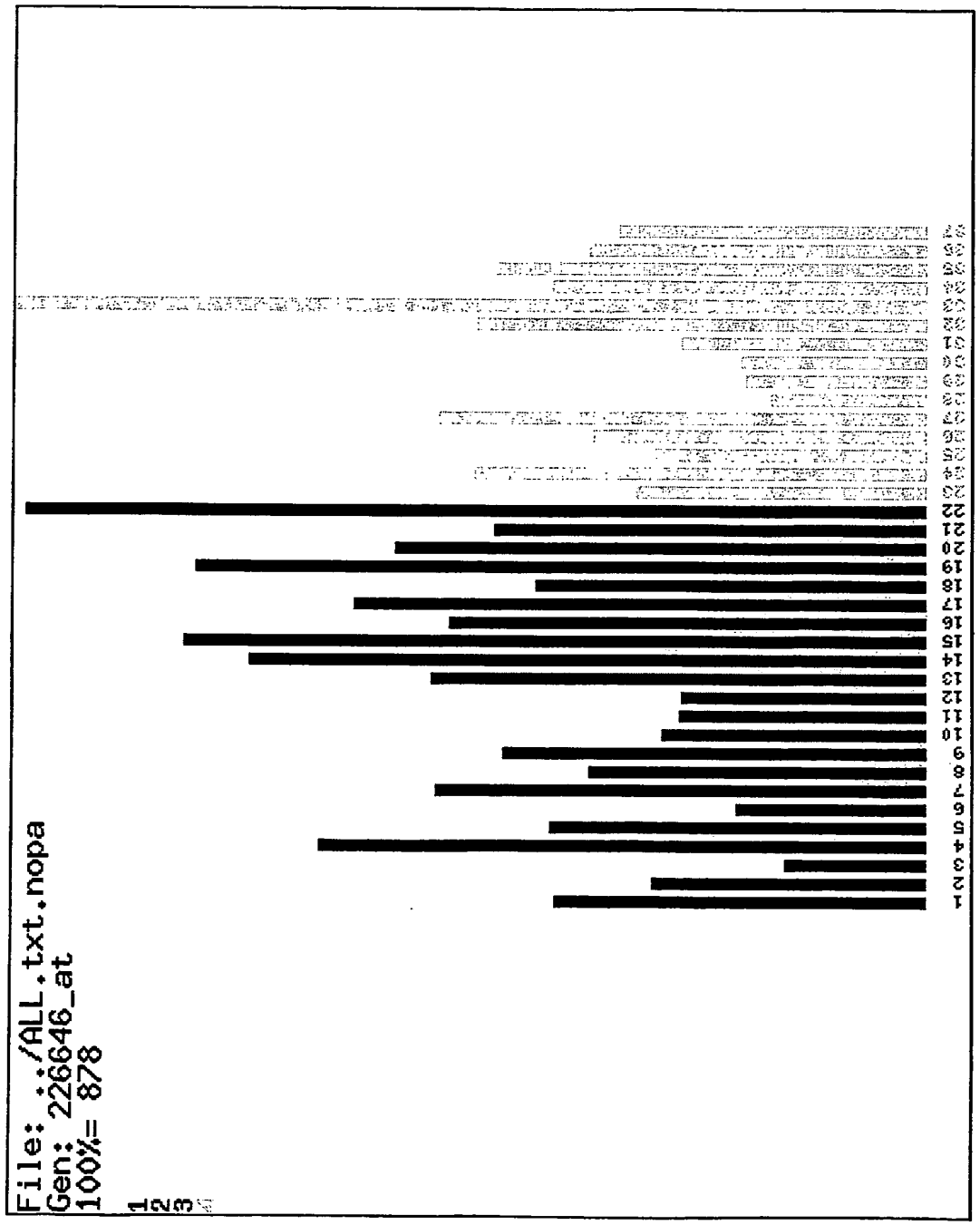

226646_at, KLF2, ALL B not Ph vs. all other
File: ../ALL.txt.nopa
Gen: 226646_at
100%= 878
1
2
3
t(4;11) t(8;14) ALLBnotPh ALLPh T-ALL

Figure 247

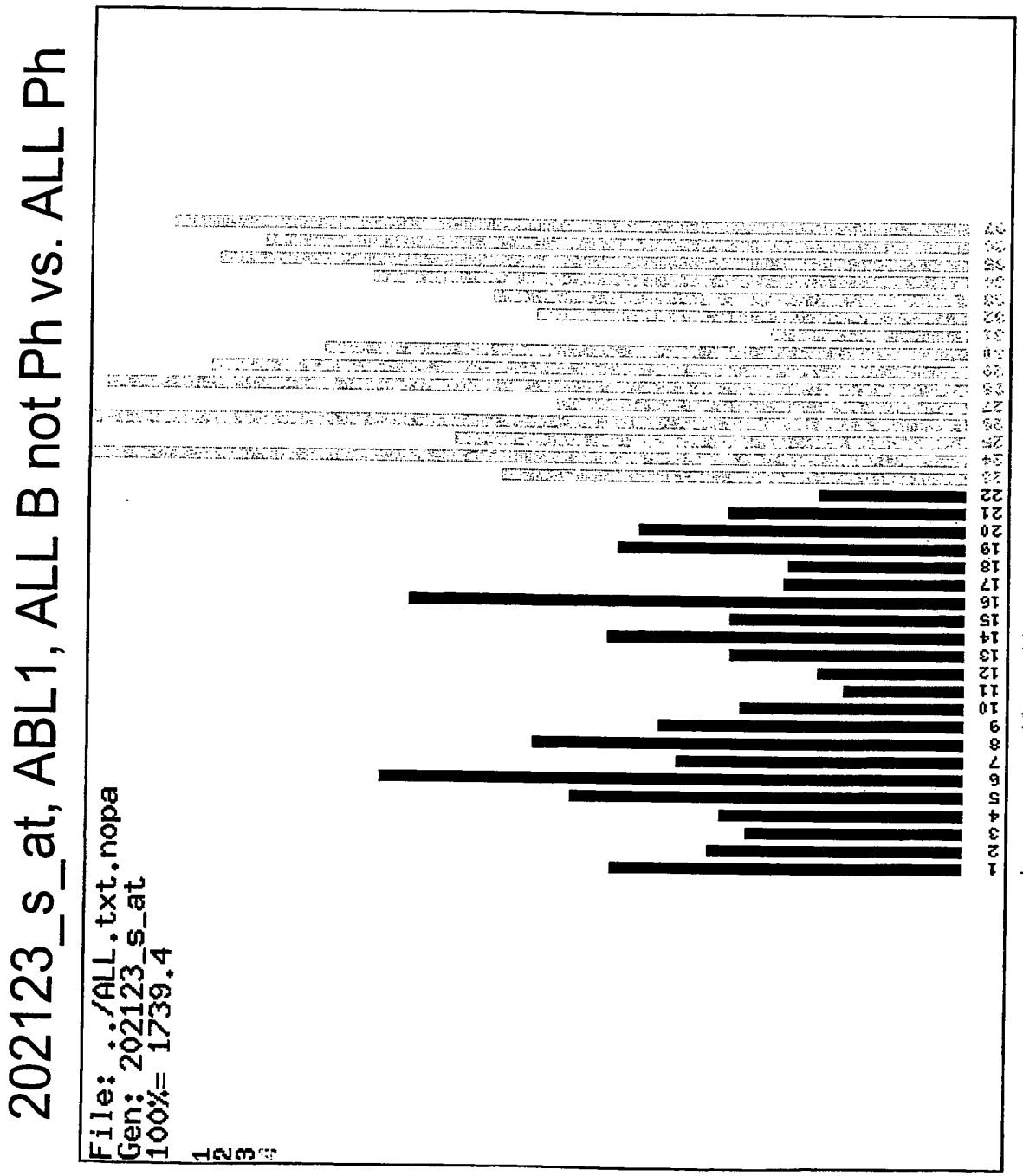

202123_s_at, ABL1, ALL B not Ph vs. ALL Ph
File: ../ALL.txt.nopa
Gen: 202123_s_at
100%= 1739.4
t(4;11)
t(8;14) ALLBnotPh
ALLPh
T-ALL

Figure 248

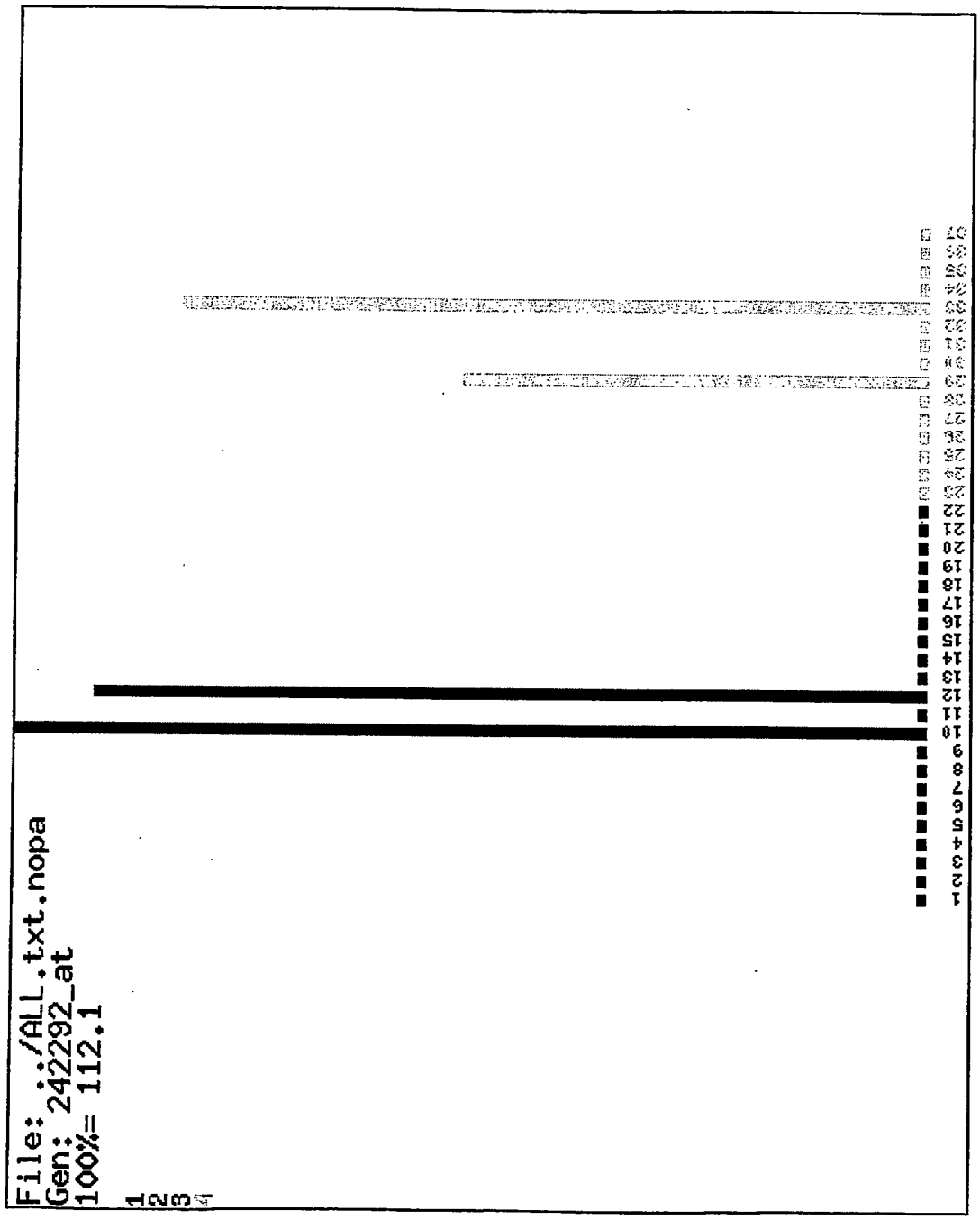

242292_at, ALL B not Ph vs. T-ALL
File: ../ALL.txt.nopa
Gen: 242292_at
100%= 112.1
1 2 3 4
t(4;11) t(8;14) ALLBnotPh ALLPh T-ALL

Figure 249

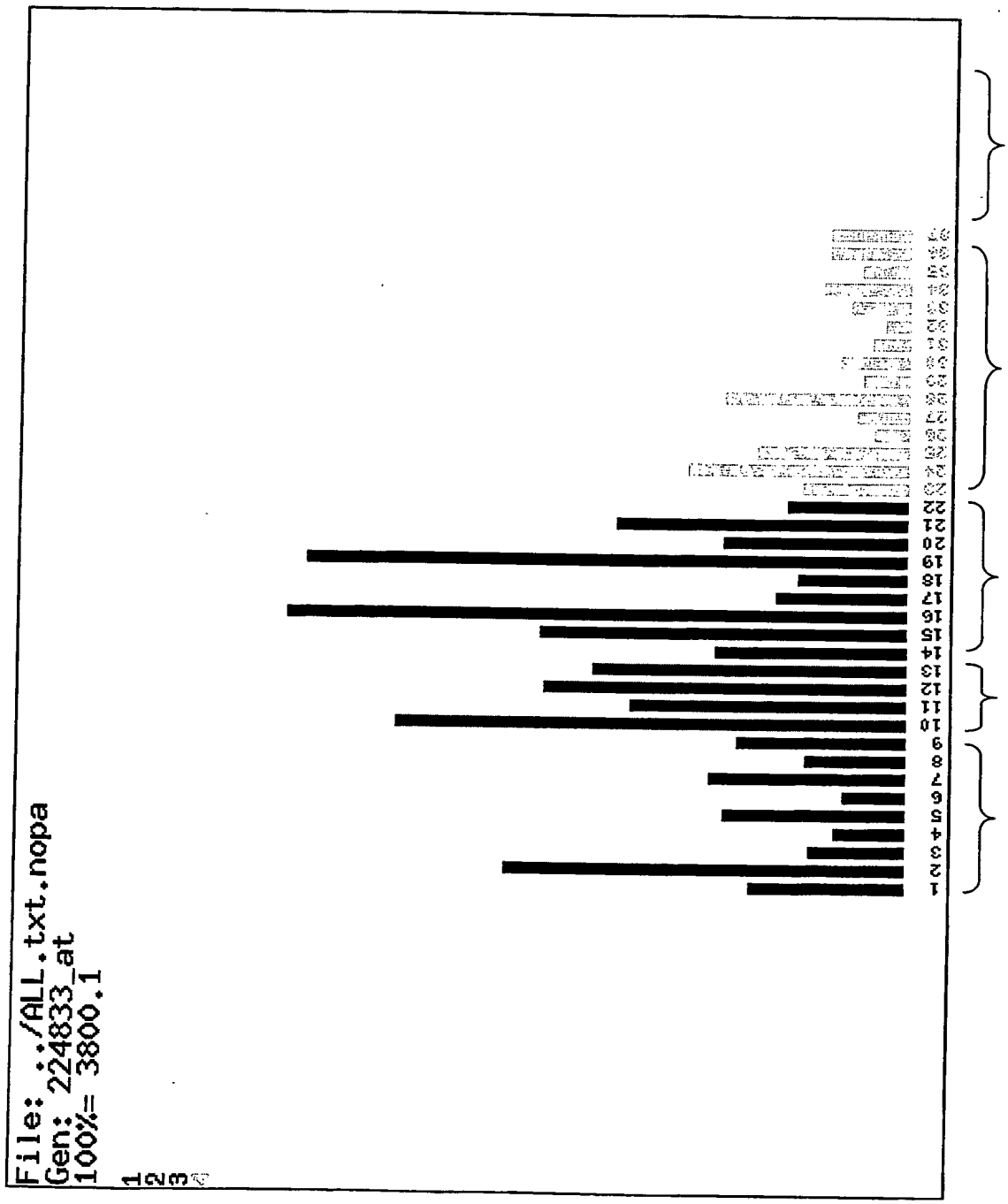

224833_at, ETS1, ALL Ph vs. all other
File: ../ALL.txt.nopa
Gen: 224833_at
100%= 3800.1
t(4;11)
t(8;14)
ALLBnotPh
ALLPh
T-ALL

Figure 250

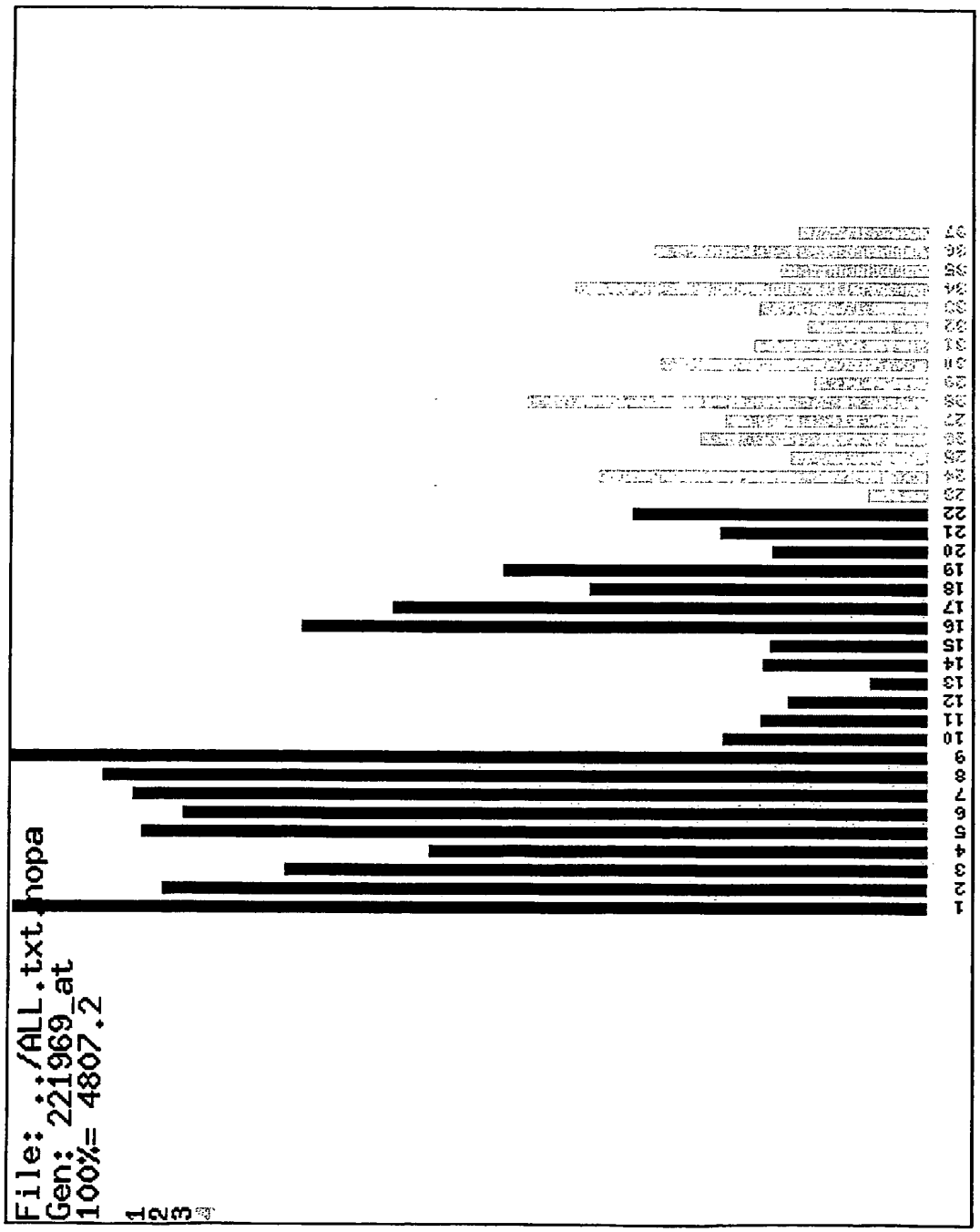

221969_at, PAX5, ALL Ph vs. T-ALL
File: ../ALL.txt
Gen: 221969_at
100%= 4807.2
t(4;11)
t(8;14)
ALLBnotPh
ALLPh
T-ALL

Figure 251

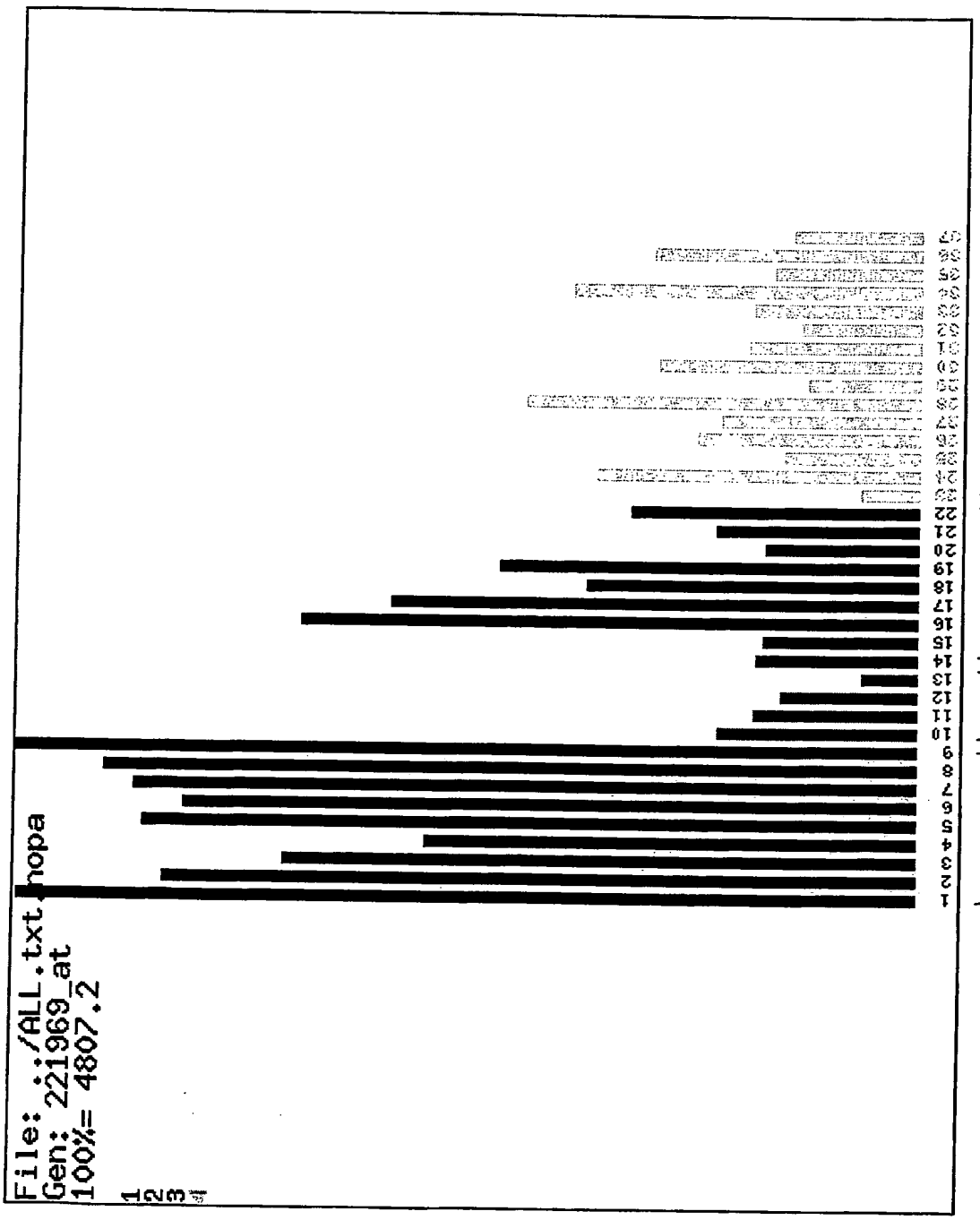

221969_at, PAX5, T-ALL vs. all other
File: ../ALL.txt hopa
Gen: 221969_at
100%= 4807.2
t(4;11)
t(8;14) ALLBnotPh
ALLPh
T-ALL

Figure 252

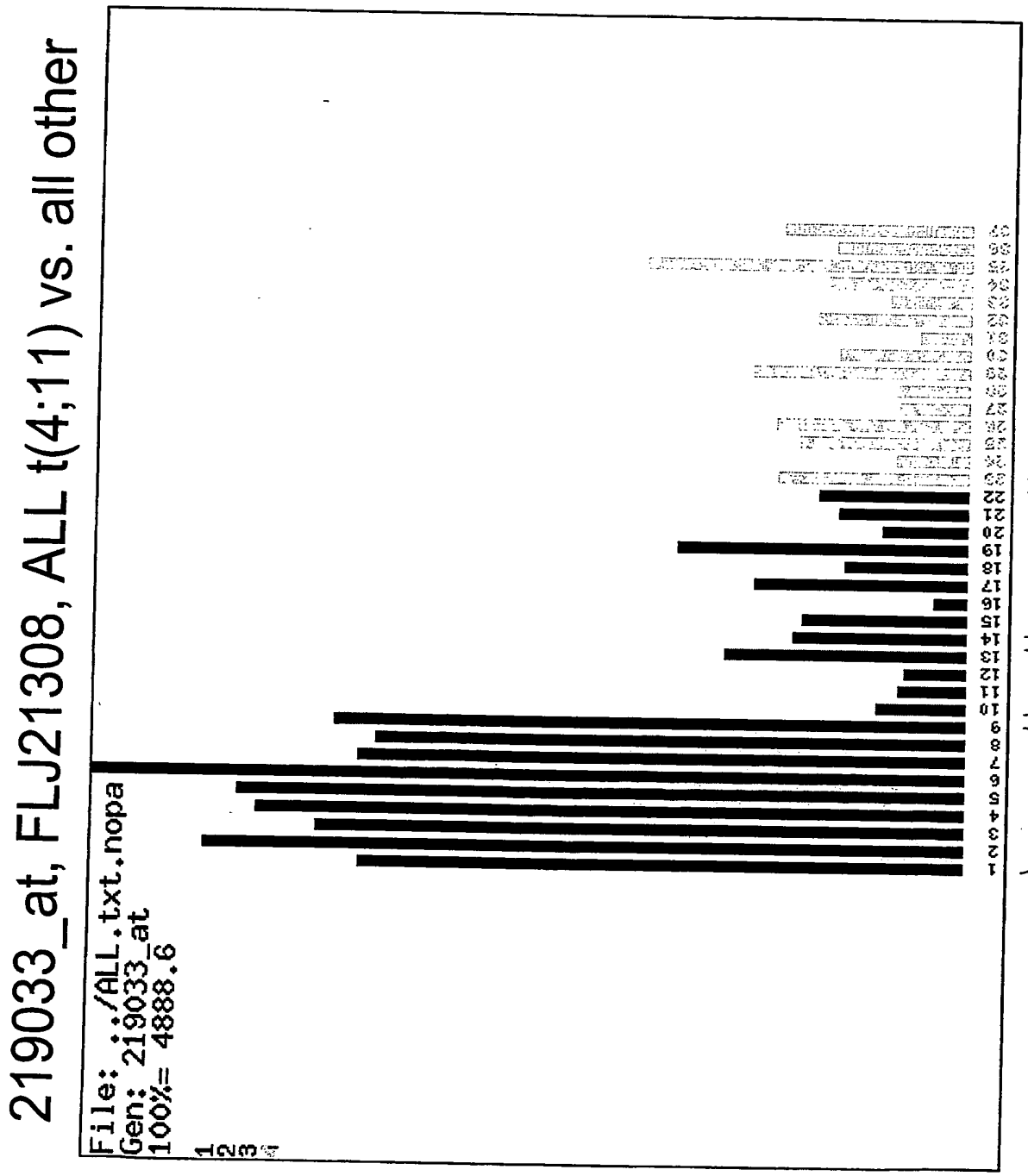

219033_at, FLJ21308, ALL t(4;11) vs. all other
File: ../ALL.txt.nopa
Gen: 219033_at
100%= 4888.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
t(4;11) t(8;14) ALLBnotPh ALLPh T-ALL

Figure 253

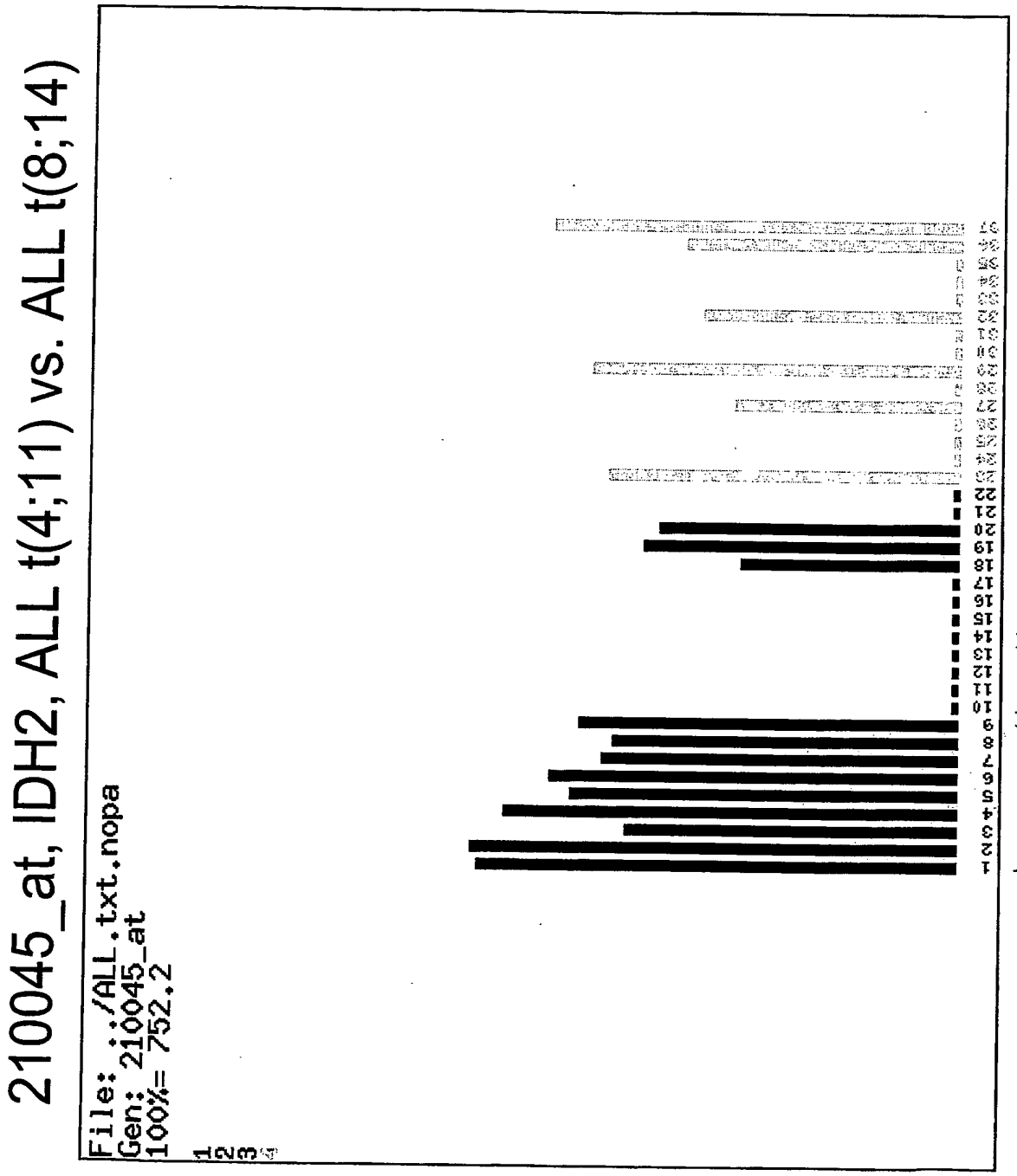

210045_at, IDH2, ALL t(4;11) vs. ALL t(8;14)
File: ../ALL.txt.nopa
Gen: 210045_at
100%= 752.2
1 2 3 4
t(4;11) t(8;14) ALLBnotPh ALLPh T-ALL

Figure 254

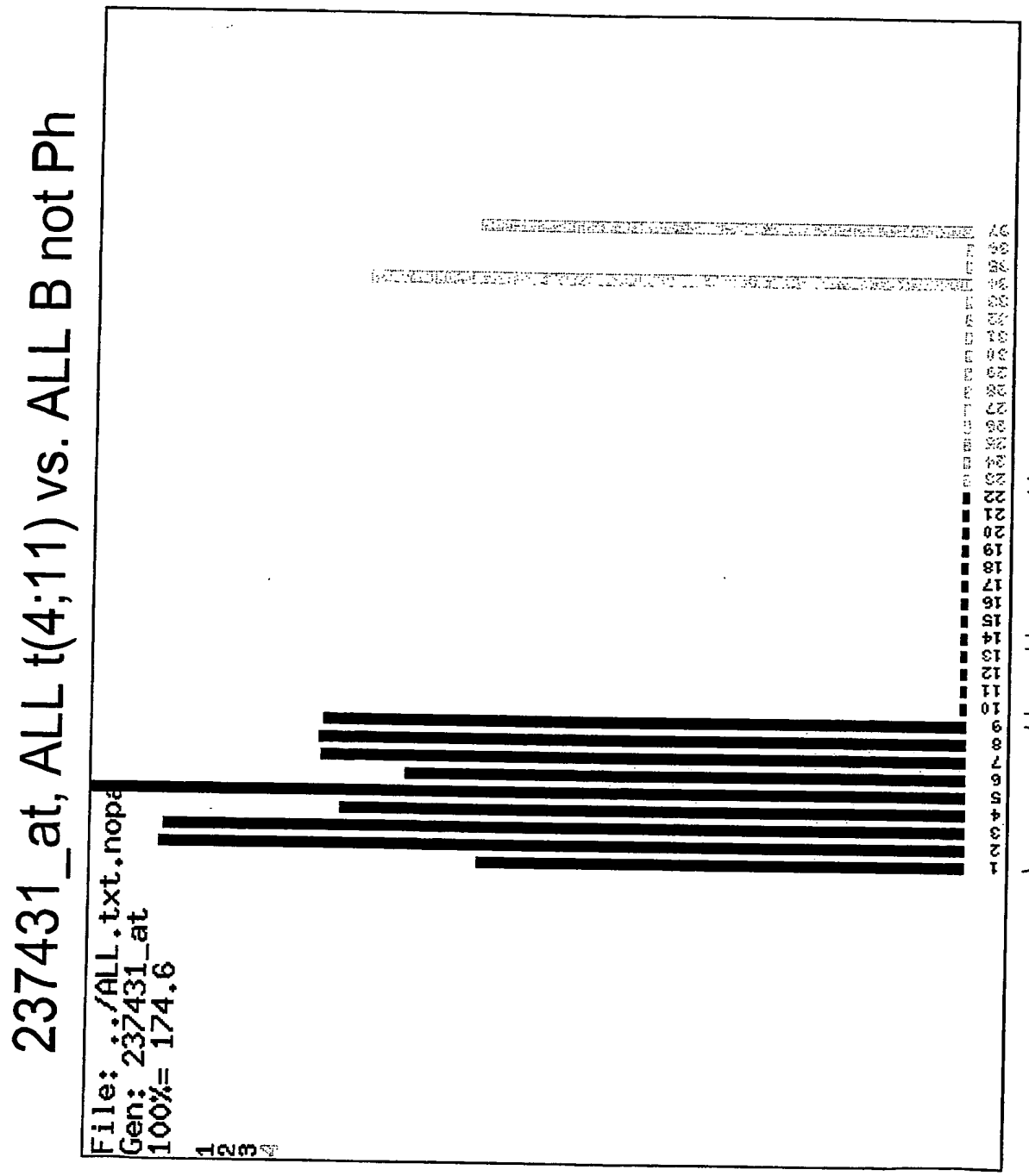

237431_at, ALL t(4;11) vs. ALL B not Ph
File: ../ALL.txt.nopa
Gen: 237431_at
100%= 174.6
t(4;11)
t(8;14) ALLBnotPh
ALLPh
T-ALL

Figure 255

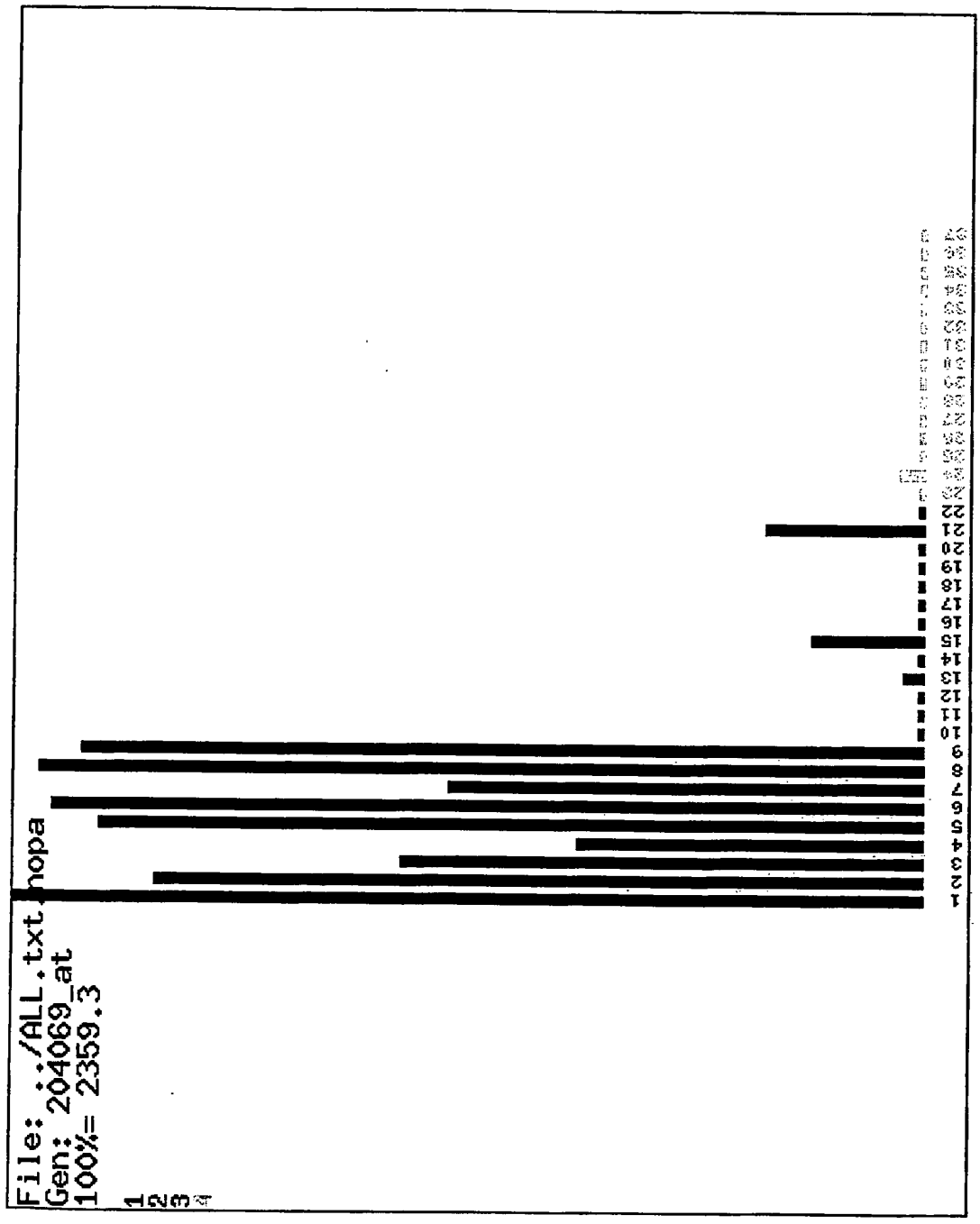

204069_at, MEIS1, ALL t(4;11) vs. ALL Ph
File: ../ALL.txt.hopa
Gen: 204069_at
100%= 2359.3
t(4;11)
t(8;14)
ALLBnotPh
ALLPh
T-ALL

Figure 256

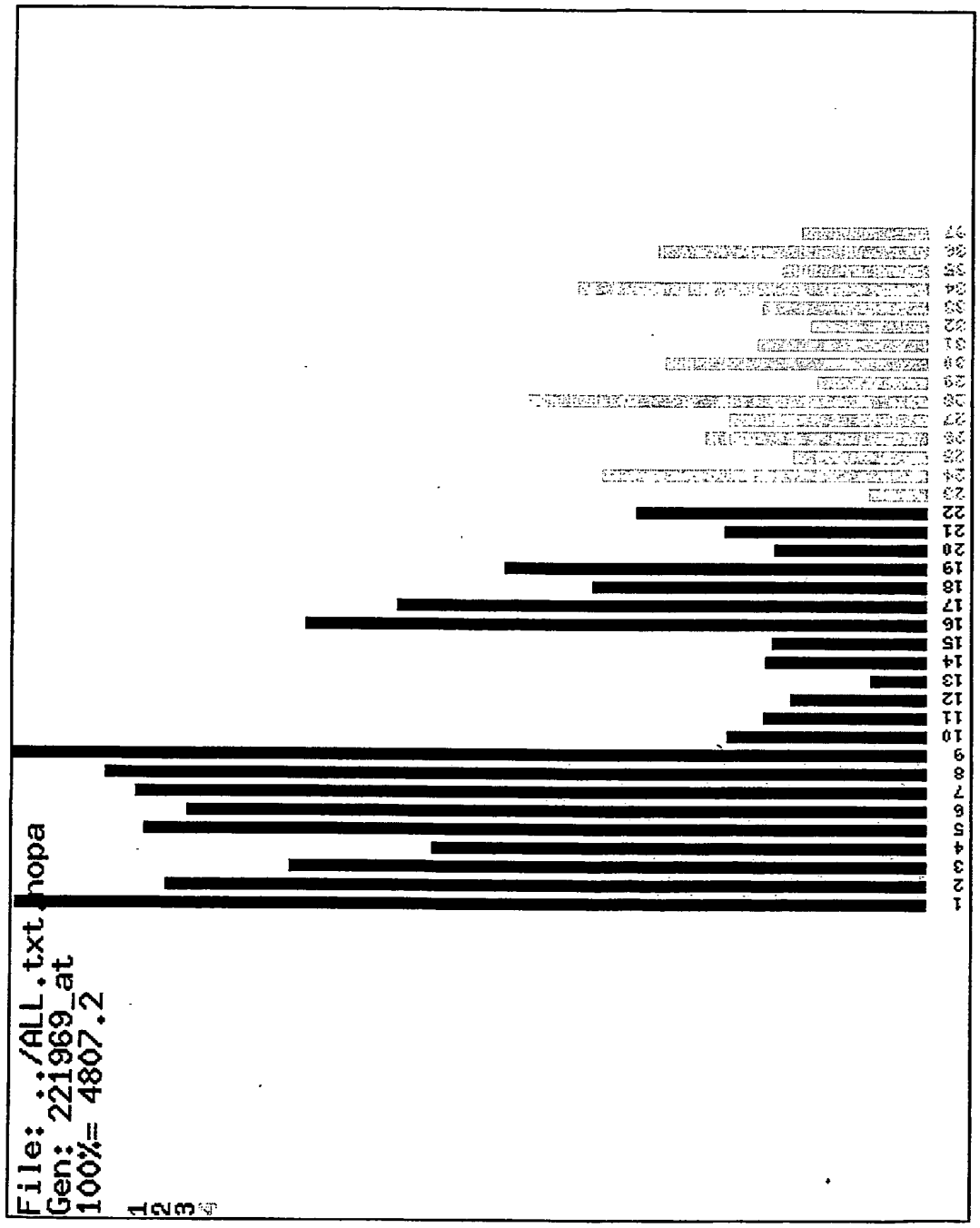

221969_at, PAX5, ALL t(4;11) vs. T-ALL
File: ../ALL.txt
Gen: 221969_at
100%= 4807.2
t(4;11)
t(8;14) ALLBnotPh
ALLPh
T-ALL

Figure 257

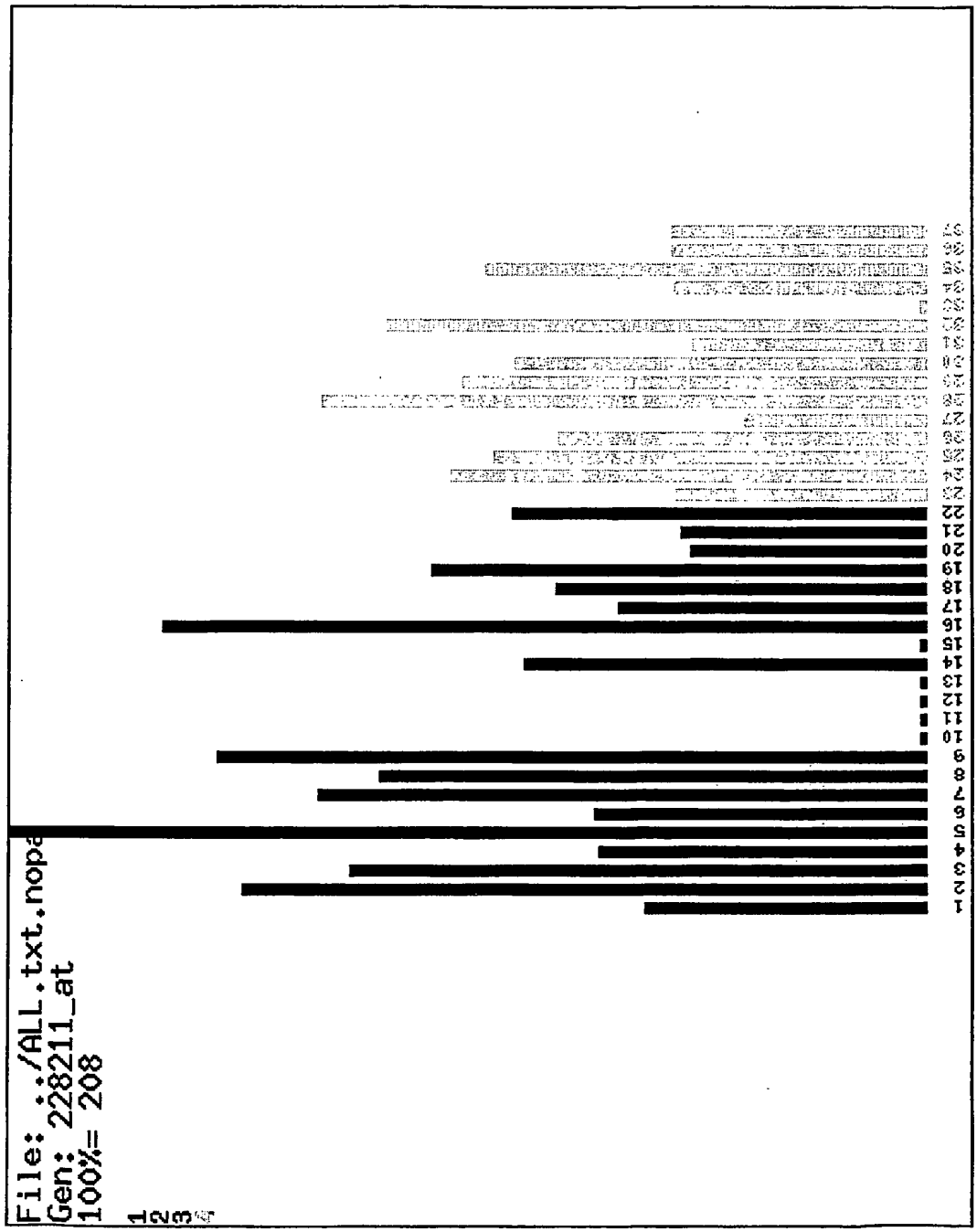

228211_at, ALL t(8;14) vs. all other
File: ../ALL.txt.nopa
Gen: 228211_at
100%= 208
t(4;11) t(8;14) ALLBnotPh ALLPh T-ALL

Figure 258

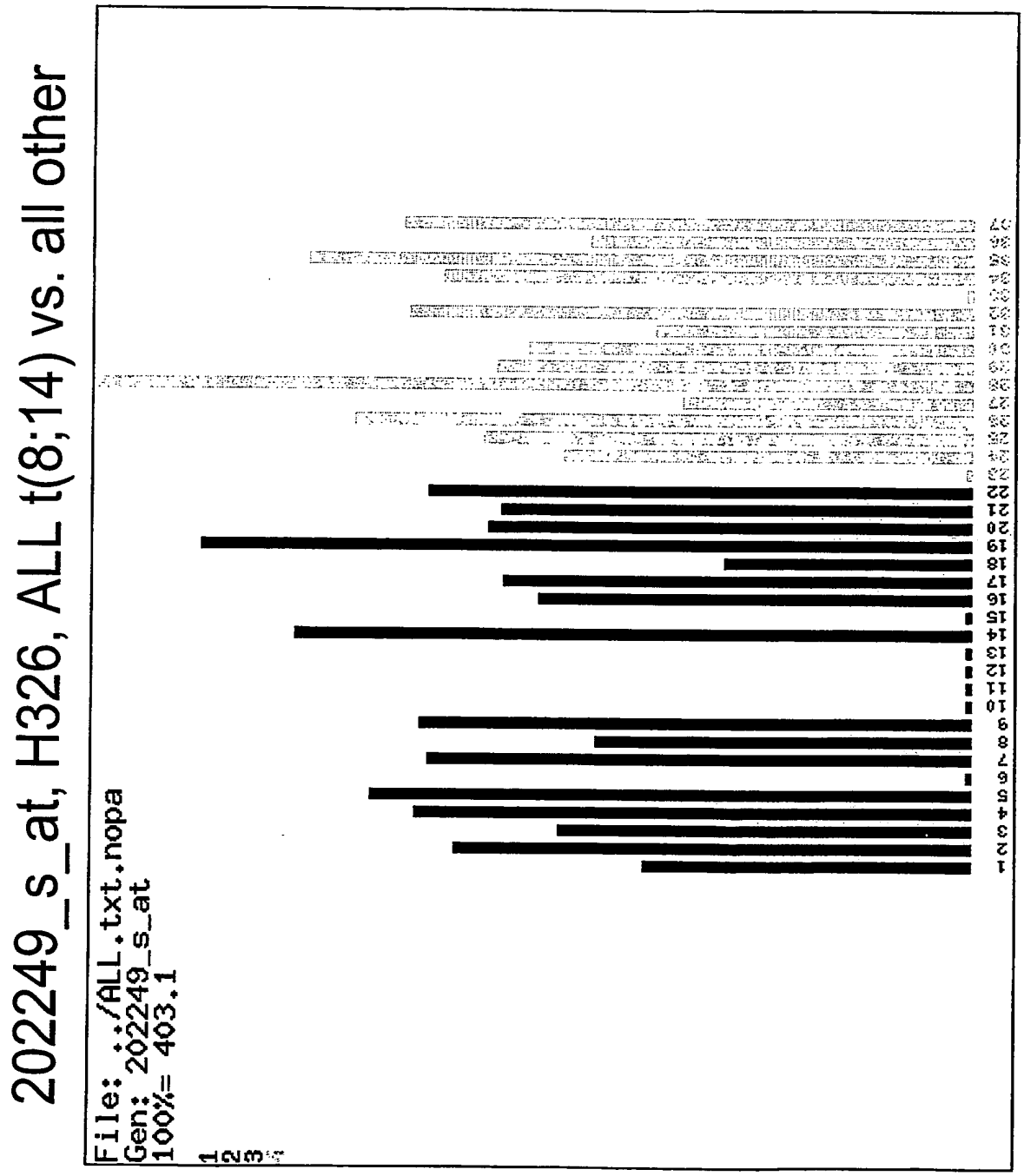

202249_s_at, H326, ALL t(8;14) vs. all other
File: ../ALL.txt.nopa
Gen: 202249_s_at
100%= 403.1
t(4;11)
t(8;14) ALLBnotPh
ALLPh
T-ALL

Figure 259

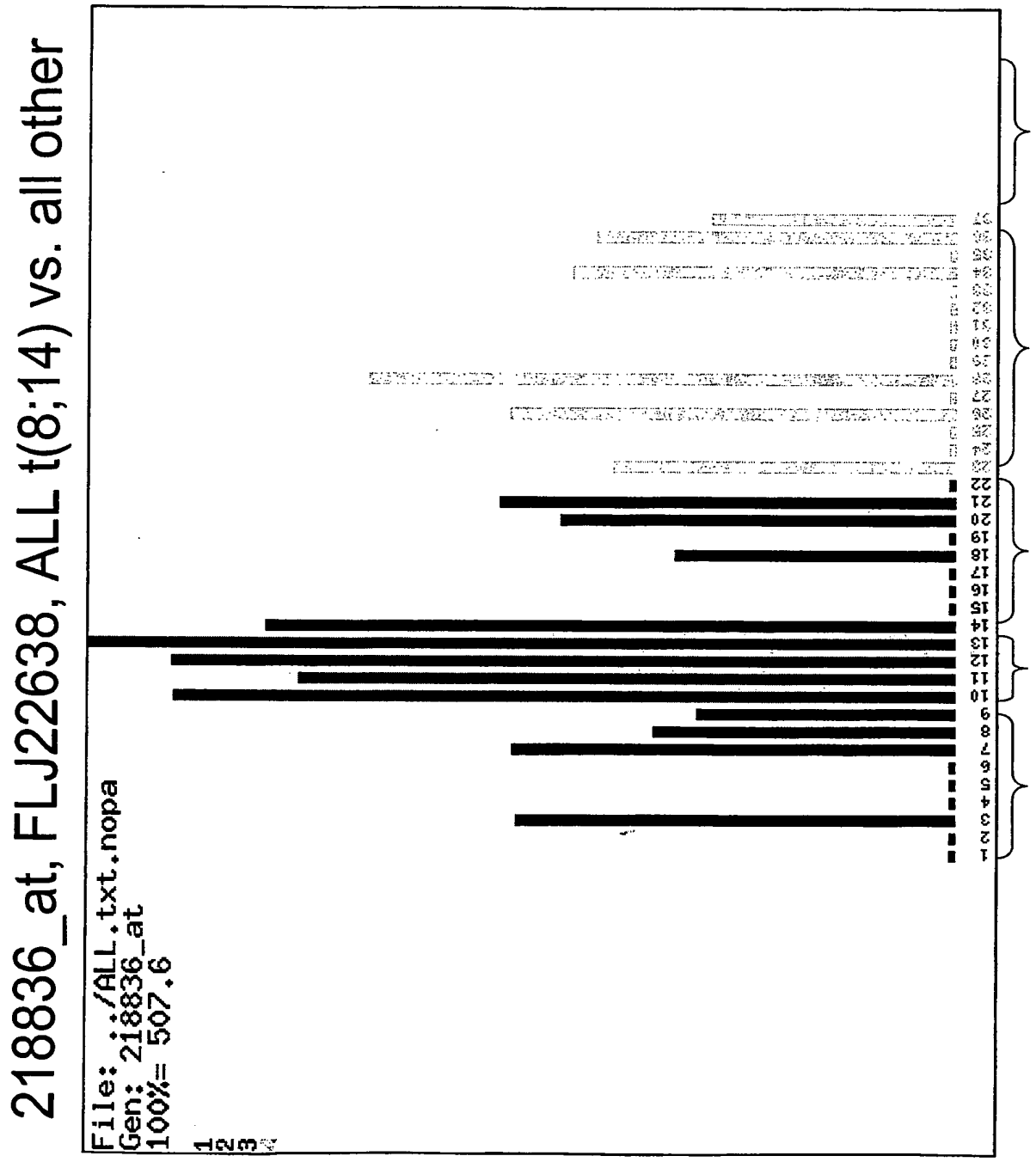

218836_at, FLJ22638, ALL t(8;14) vs. all other
File: ../ALL.txt.nopa
Gen: 218836_at
100%= 507.6
1 2 3
t(4;11) t(8;14) ALLBnotPh ALLPh T-ALL

Figure 260

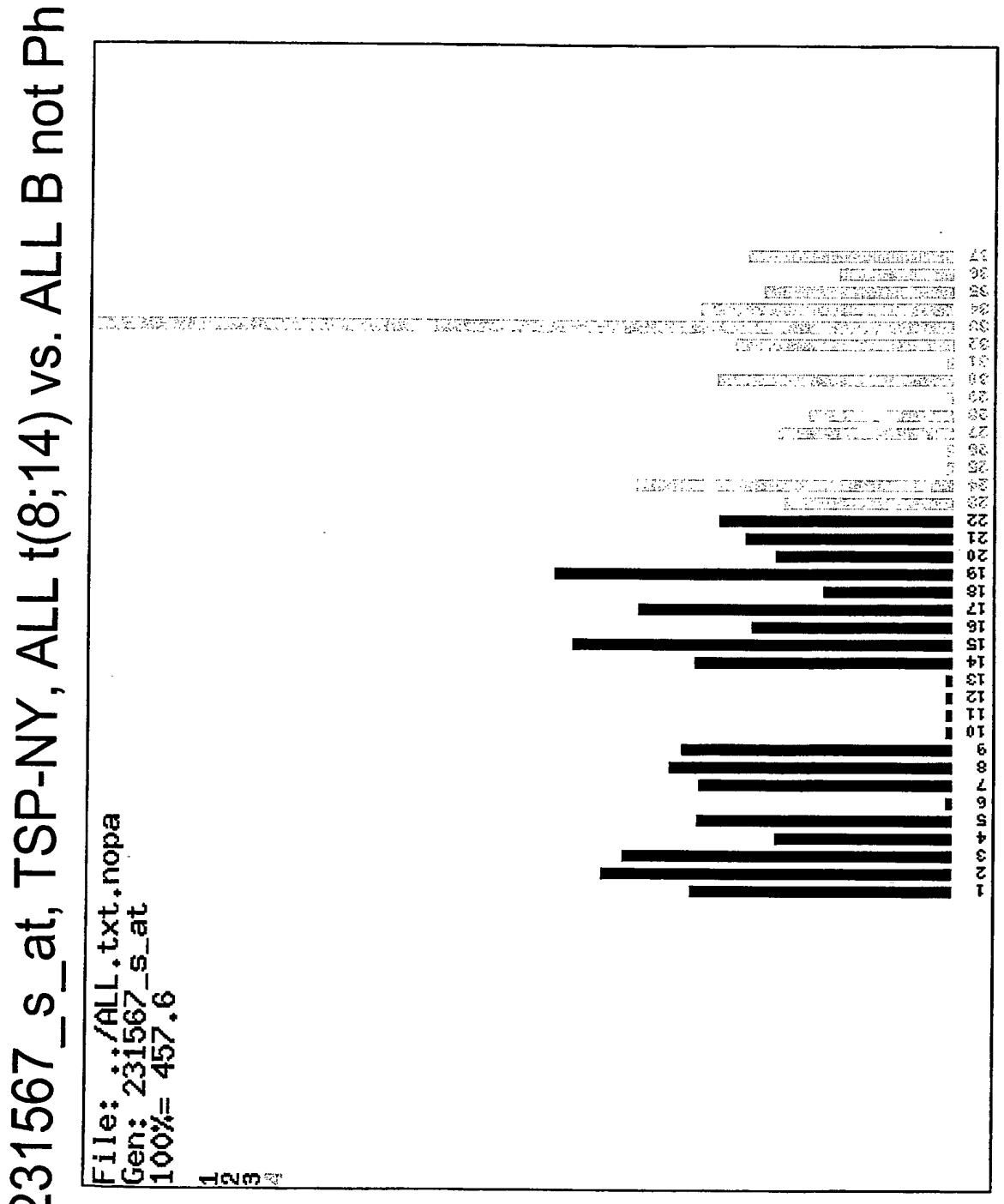

231567_s_at, TSP-NY, ALL t(8;14) vs. ALL B not Ph
File: ../ALL.txt.nopa
Gen: 231567_s_at
100%= 457.6
t(4;11)
t(8;14) ALLBnotPh
ALLPh
T-ALL

Figure 261

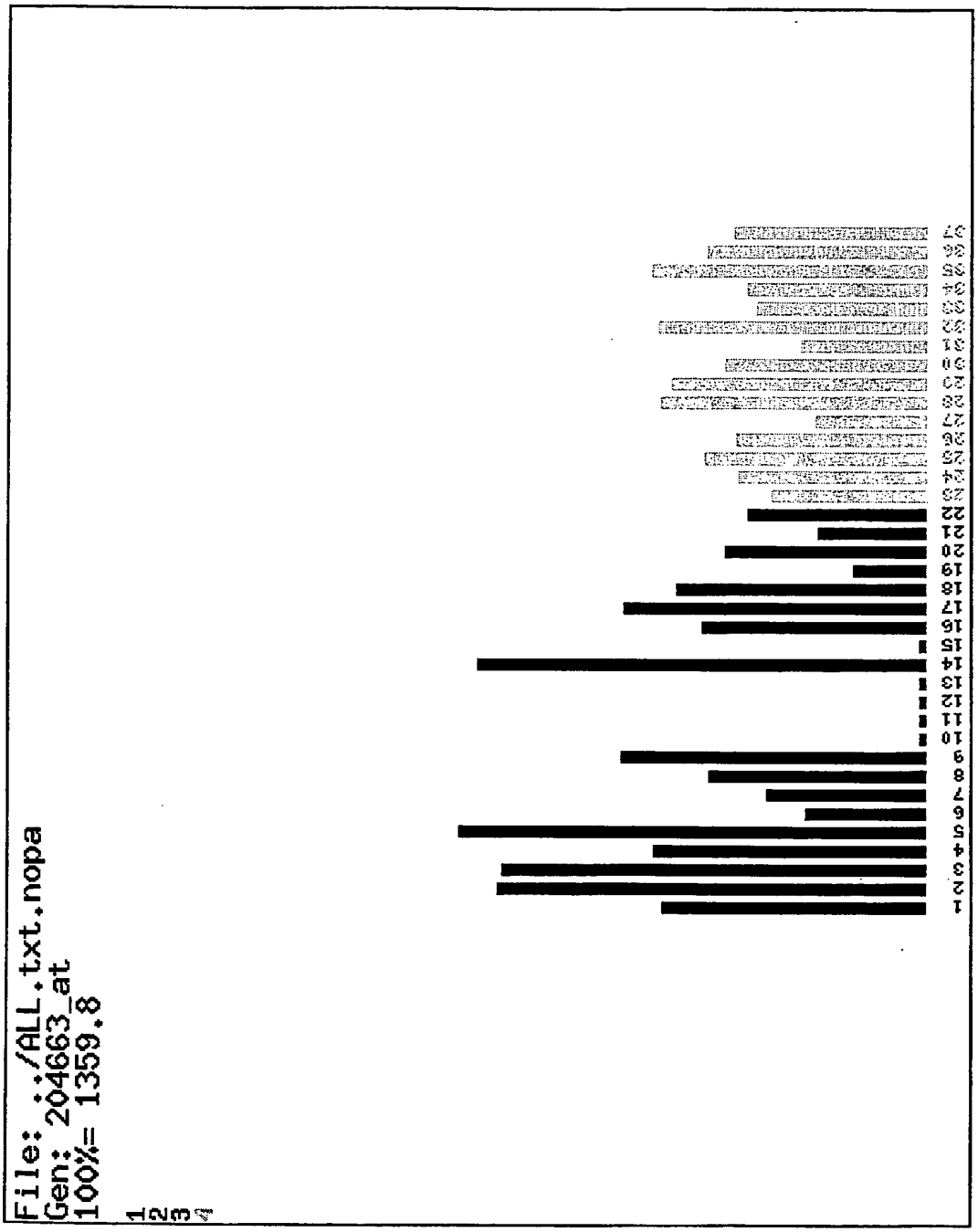

204663_at, ME3, ALL t(8;14) vs. ALL Ph
File: ../ALL.txt.nopa
Gen: 204663_at
100%= 1359.8
1 2 3 4
t(4;11) t(8;14) ALLBnotPh ALLPh T-ALL

Figure 262

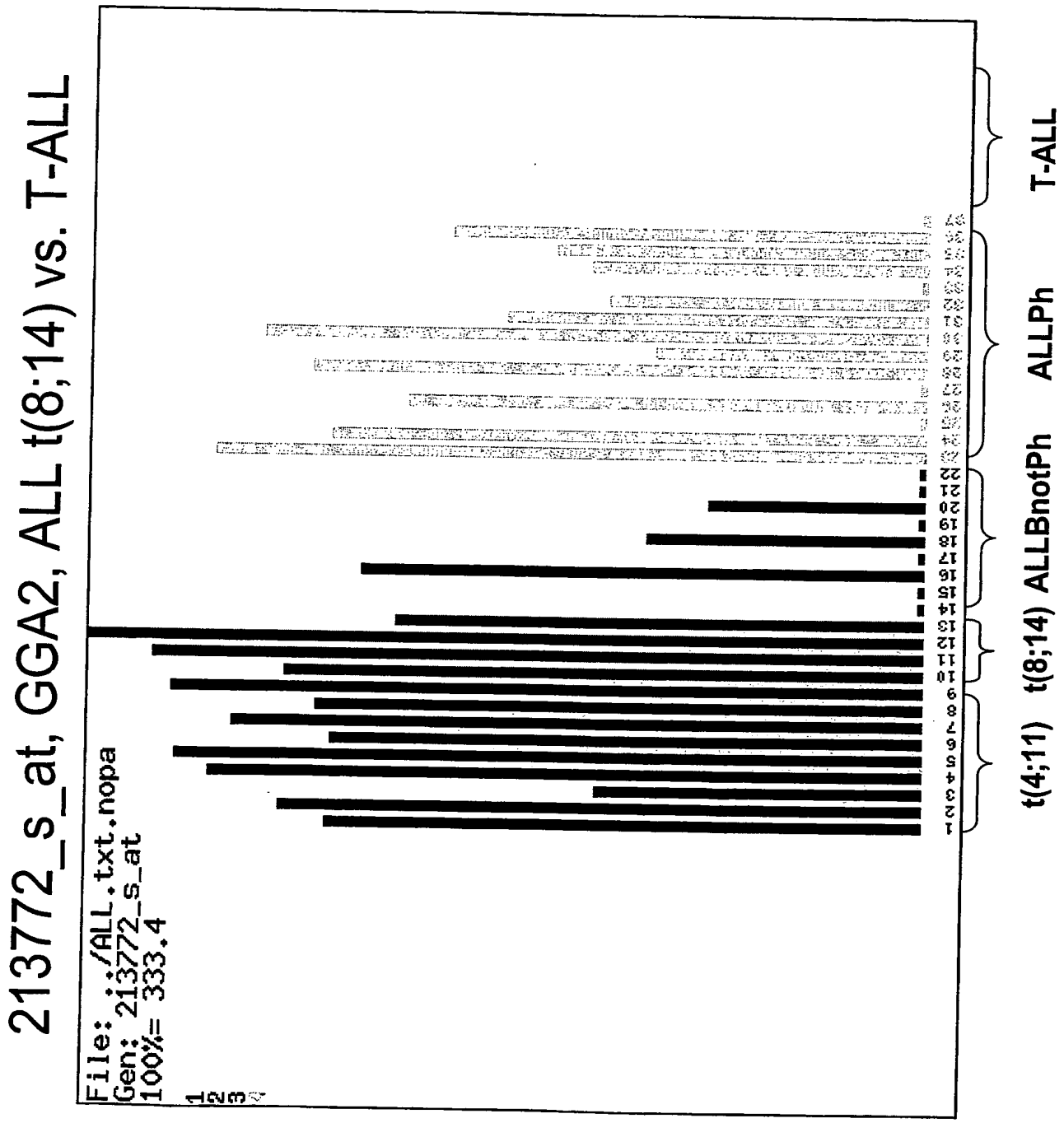

213772_s_at, GGA2, ALL t(8;14) vs. T-ALL
File: ../ALL.txt.nopa
Gen: 213772_s_at
100%= 333.4
t(4;11)
t(8;14)
ALLBnotPh
ALLPh
T-ALL

Figure 263

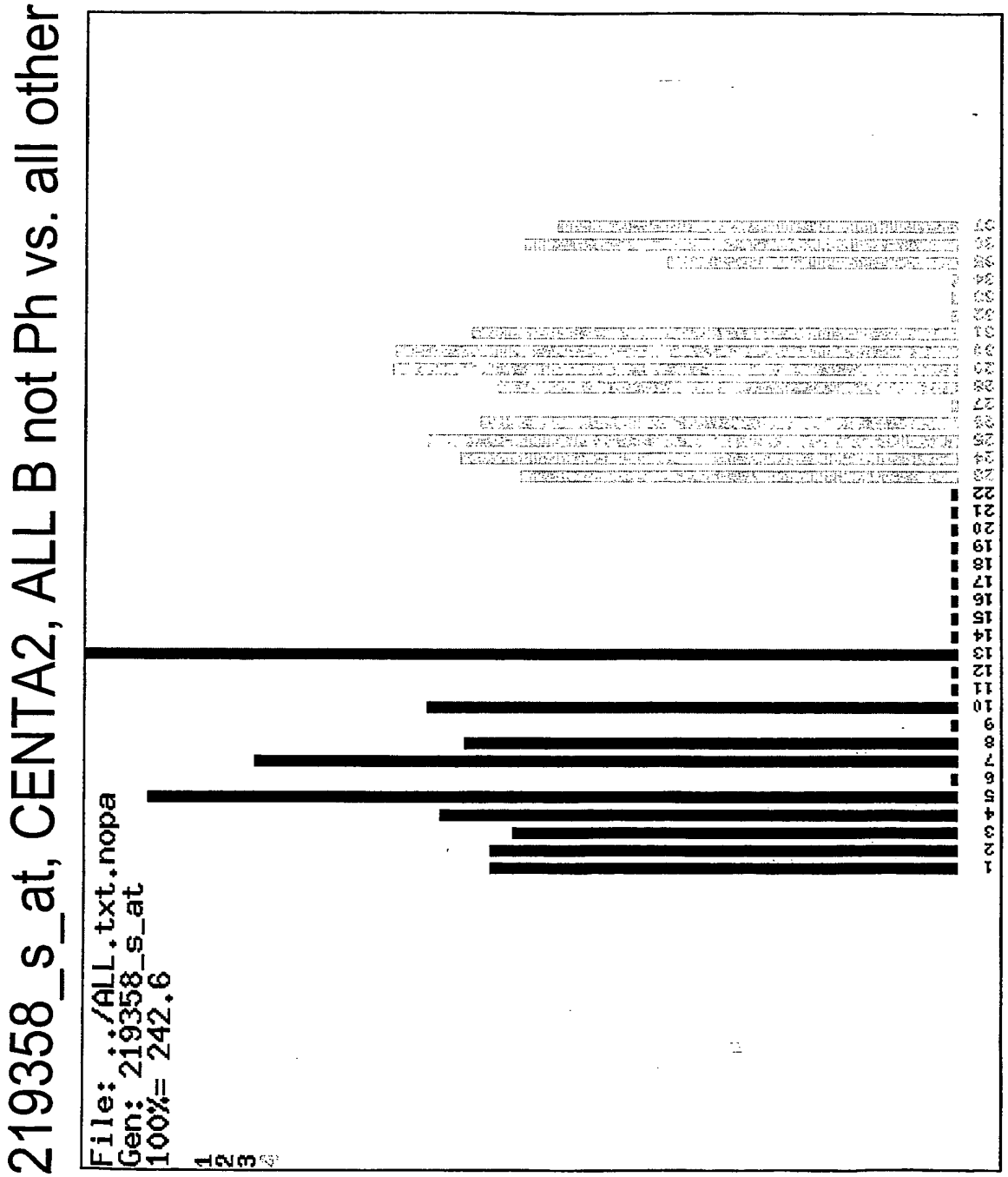

219358_s_at, CENTA2, ALL B not Ph vs. all other
File: ../ALL.txt.nopa
Gen: 219358_s_at
100%= 242.6
1 2 3
t(4;11)
t(8;14)
ALLBnotPh
ALLPh
T-ALL

Figure 264

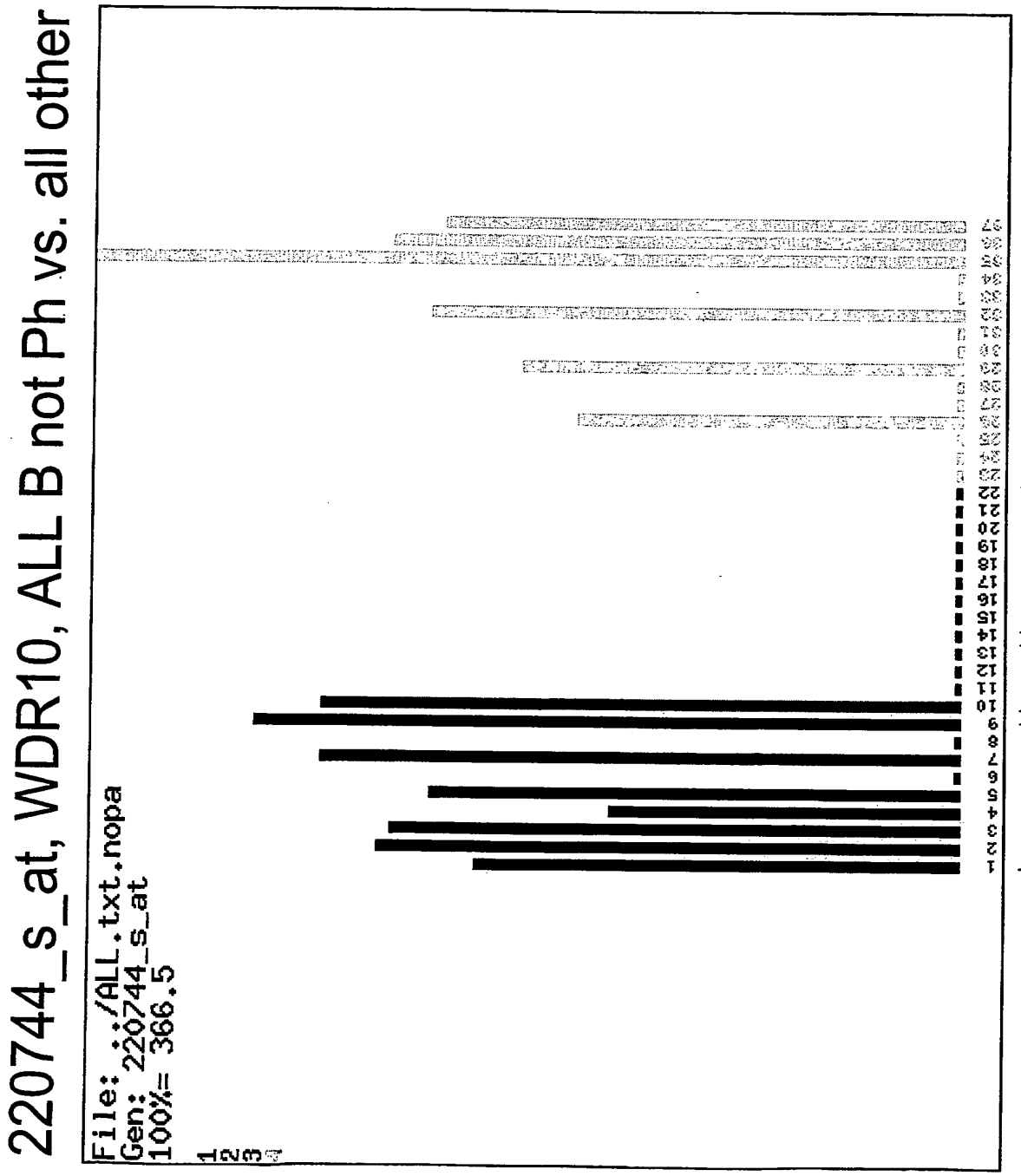

220744_s_at, WDR10, ALL B not Ph vs. all other
File: ../ALL.txt.nopa
Gen: 220744_s_at
100%= 366.5
1
2
3
t(4;11)
t(8;14) ALLBnotPh
ALLPh
T-ALL

Figure 265

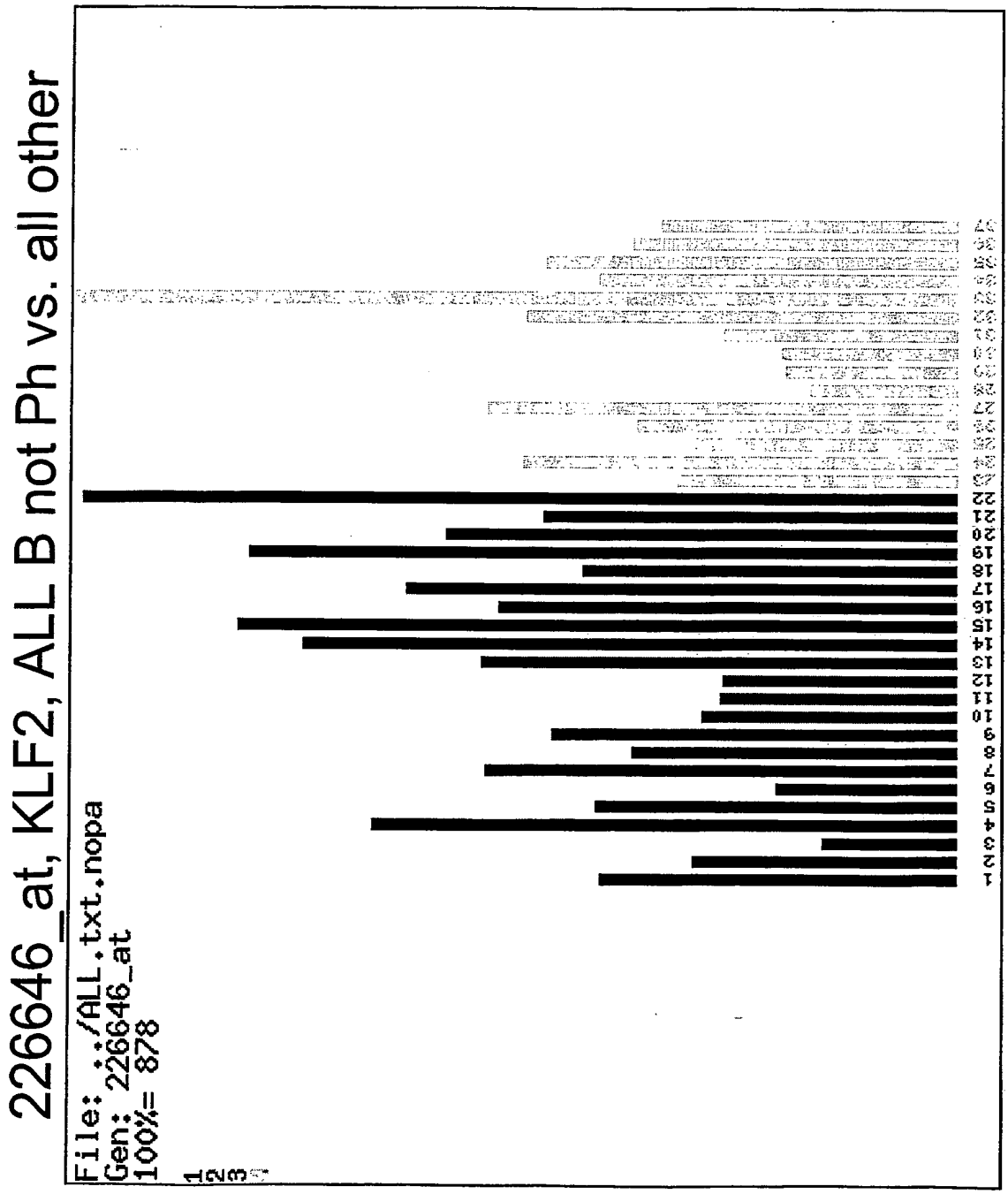

226646_at, KLF2, ALL B not Ph vs. all other
File: ../ALL.txt.nopa
Gen: 226646_at
100%= 878
1 2 3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
t(4;11)
t(8;14) ALLBnotPh
ALLPh
T-ALL

Figure 266

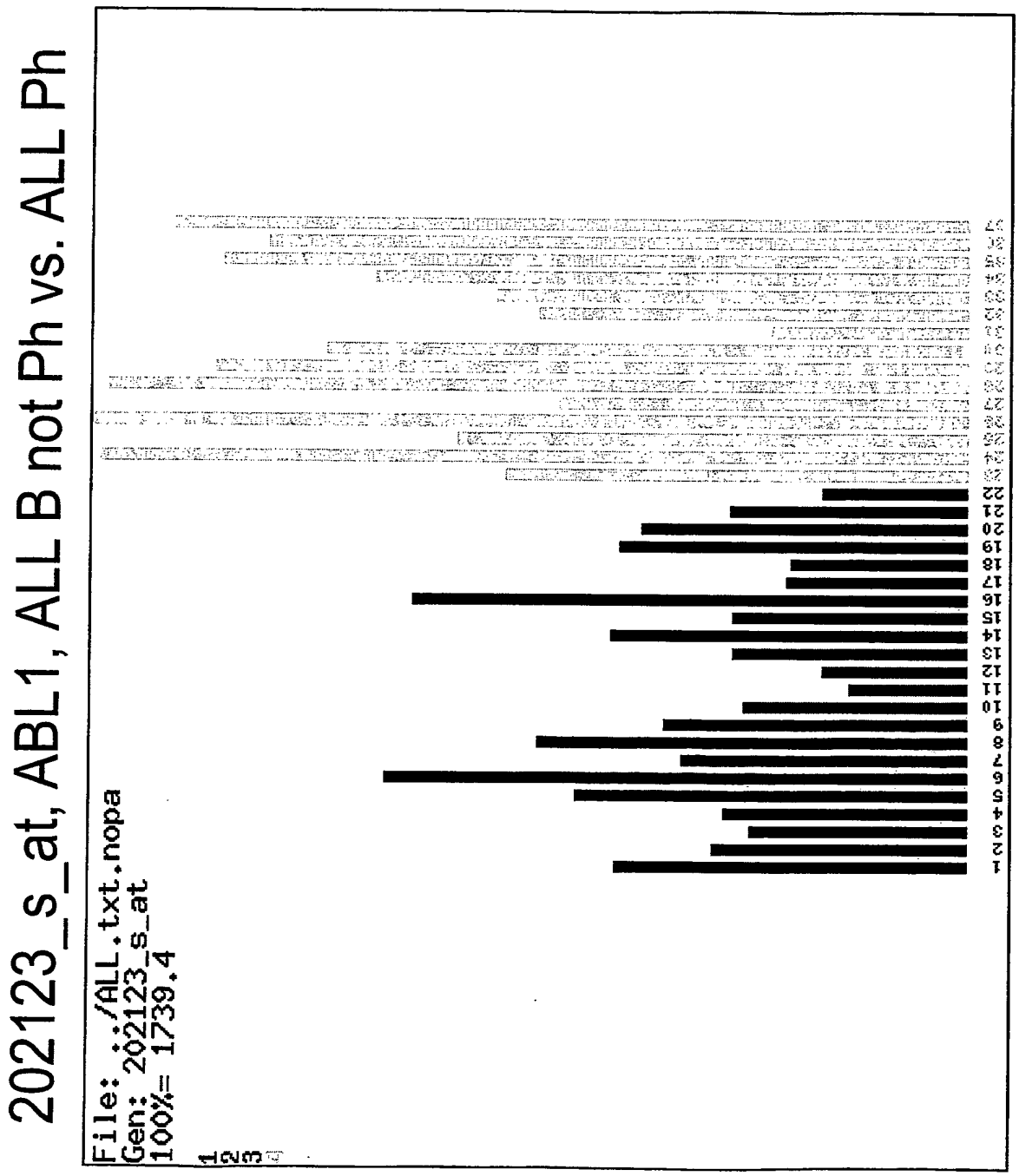

202123_s_at, ABL1, ALL B not Ph vs. ALL Ph
File: ../ALL.txt.nopa
Gen: 202123_s_at
100%= 1739.4
t(4;11)
t(8;14) ALLBnotPh
ALLPh
T-ALL

Figure 267

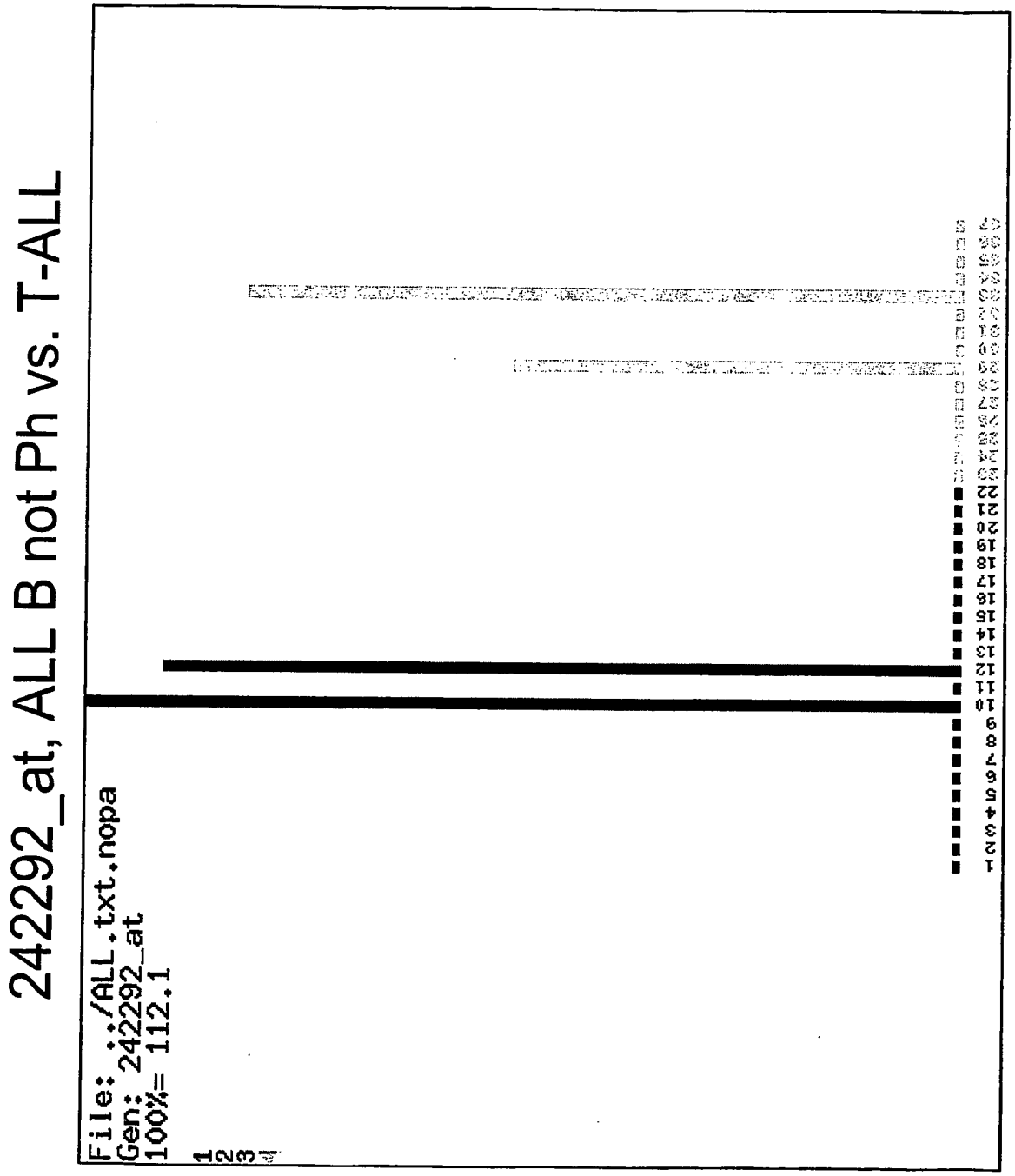

242292_at, ALL B not Ph vs. T-ALL
File: ../ALL.txt.nopa
Gen: 242292_at
100%= 112.1
1 2 3
t(4;11) t(8;14) ALLBnotPh ALLPh T-ALL

Figure 268

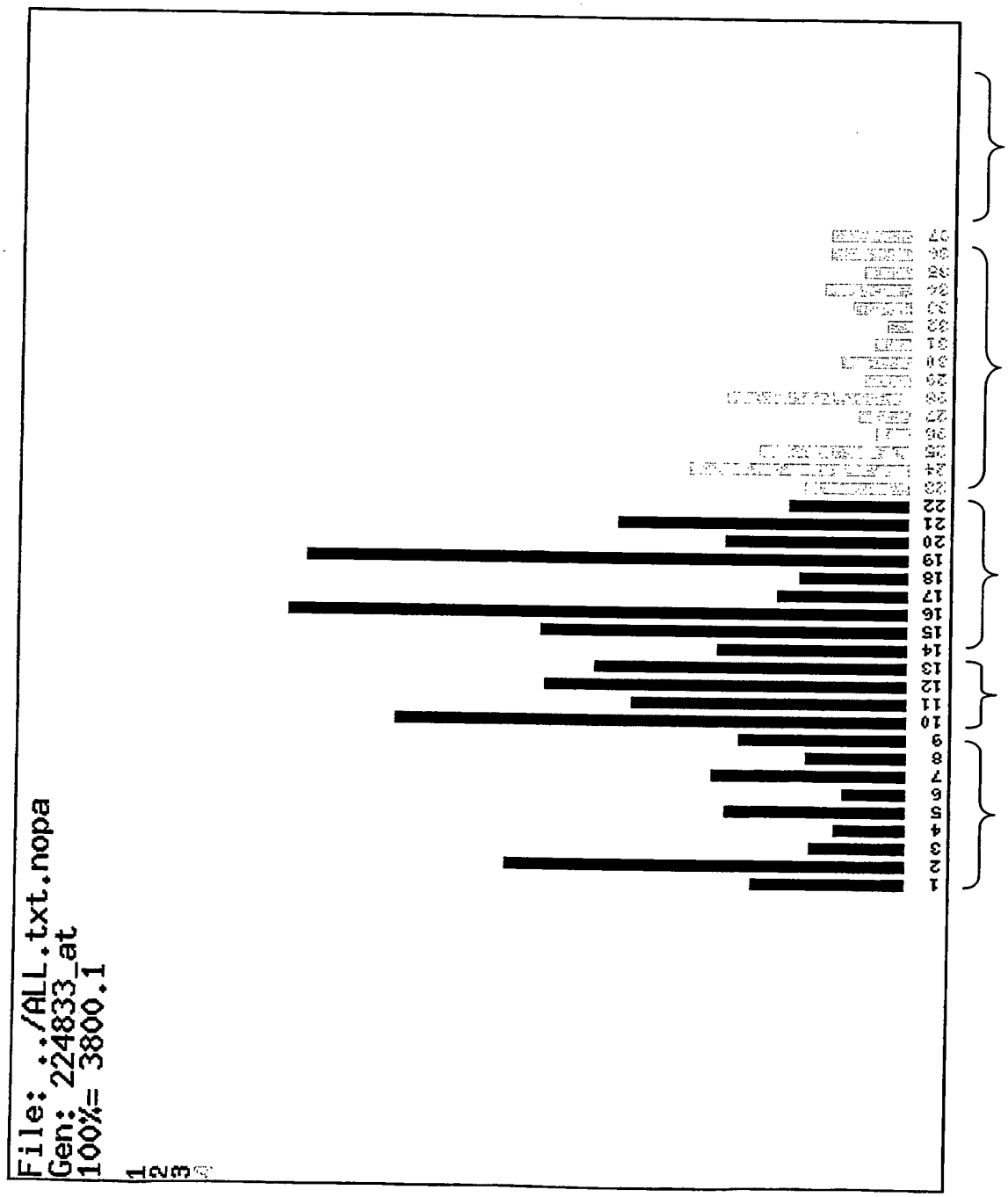

224833_at, ETS1, ALL Ph vs. all other
File: ../ALL.txt.nopa
Gen: 224833_at
100%= 3800.1
1 2 3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37
t(4;11) t(8;14) ALLBnotPh ALLPh T-ALL

Figure 269

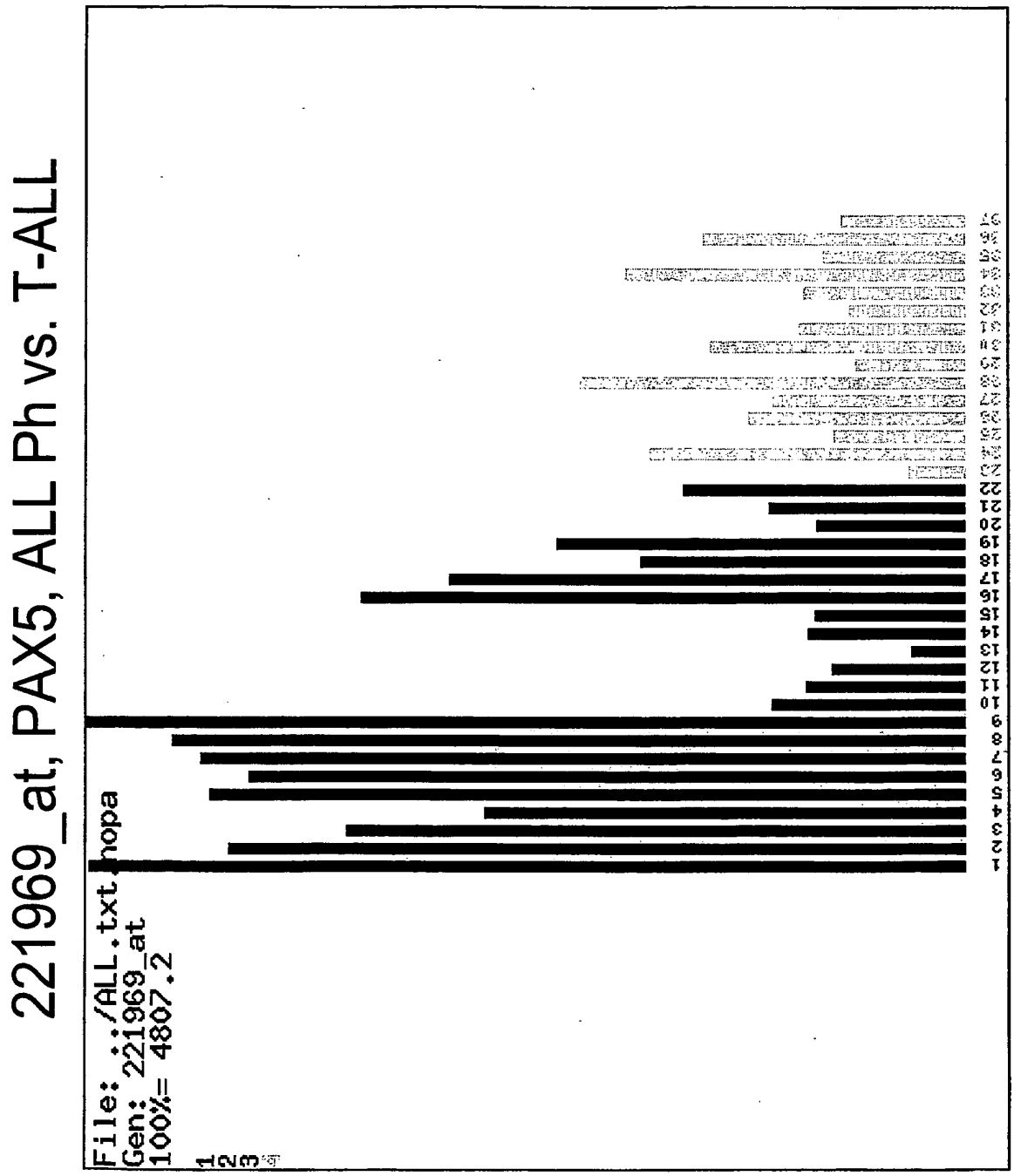

221969_at, PAX5, ALL Ph vs. T-ALL
File: ../ALL.txt.hopa
Gen: 221969_at
100%= 4807.2
t(4;11) t(8;14) ALLBnotPh ALLPh T-ALL

Figure 270

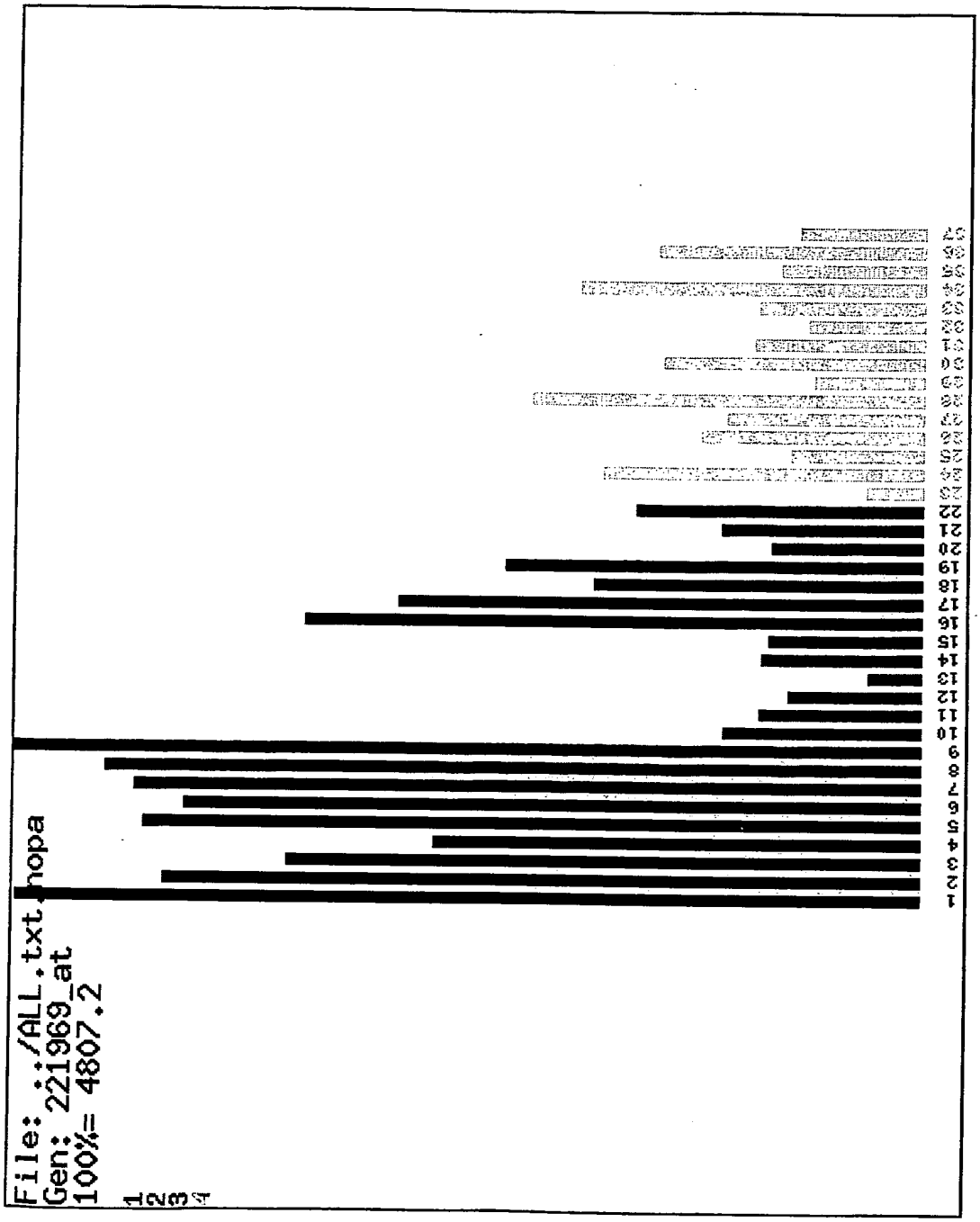

221969_at, PAX5, T-ALL vs. all other
File: ../ALL.txt.hopa
Gen: 221969_at
100%= 4807.2
t(4;11)
t(8;14) ALLBnotPh
ALLPh
T-ALL

Figure 271

218549_s_at, LOC51115, trisomy 8 vs. other aberrant

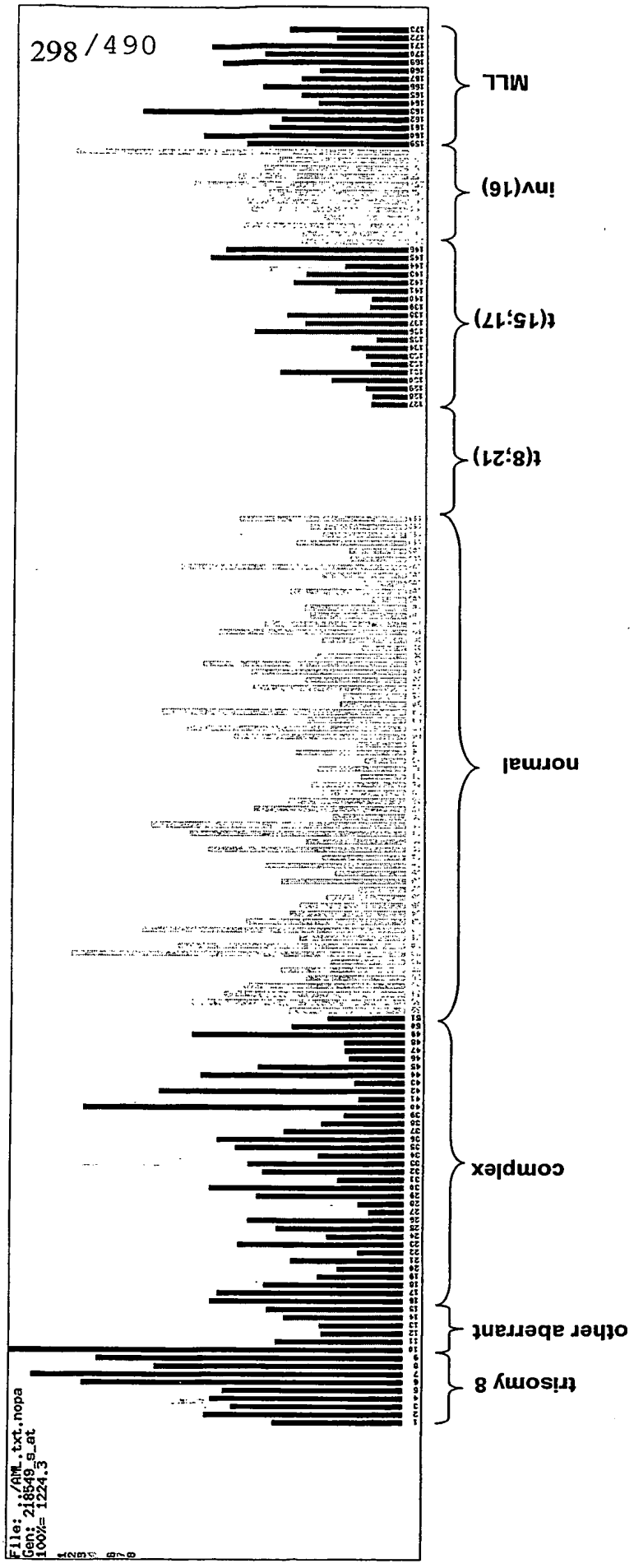


Figure 272

235647_at, trisomy 8 vs. all other AML

Figure 273

231981_at, trisomy 8 vs. all other AML

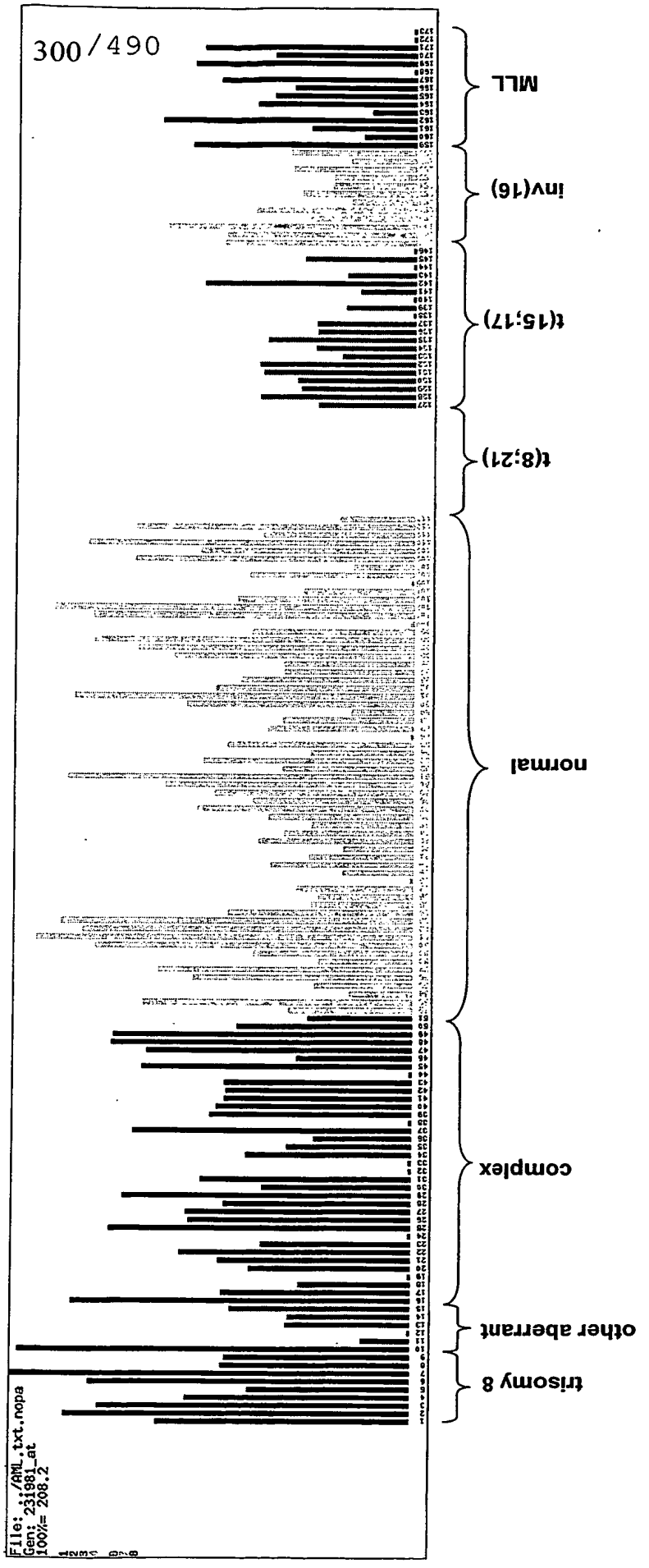


Figure 274

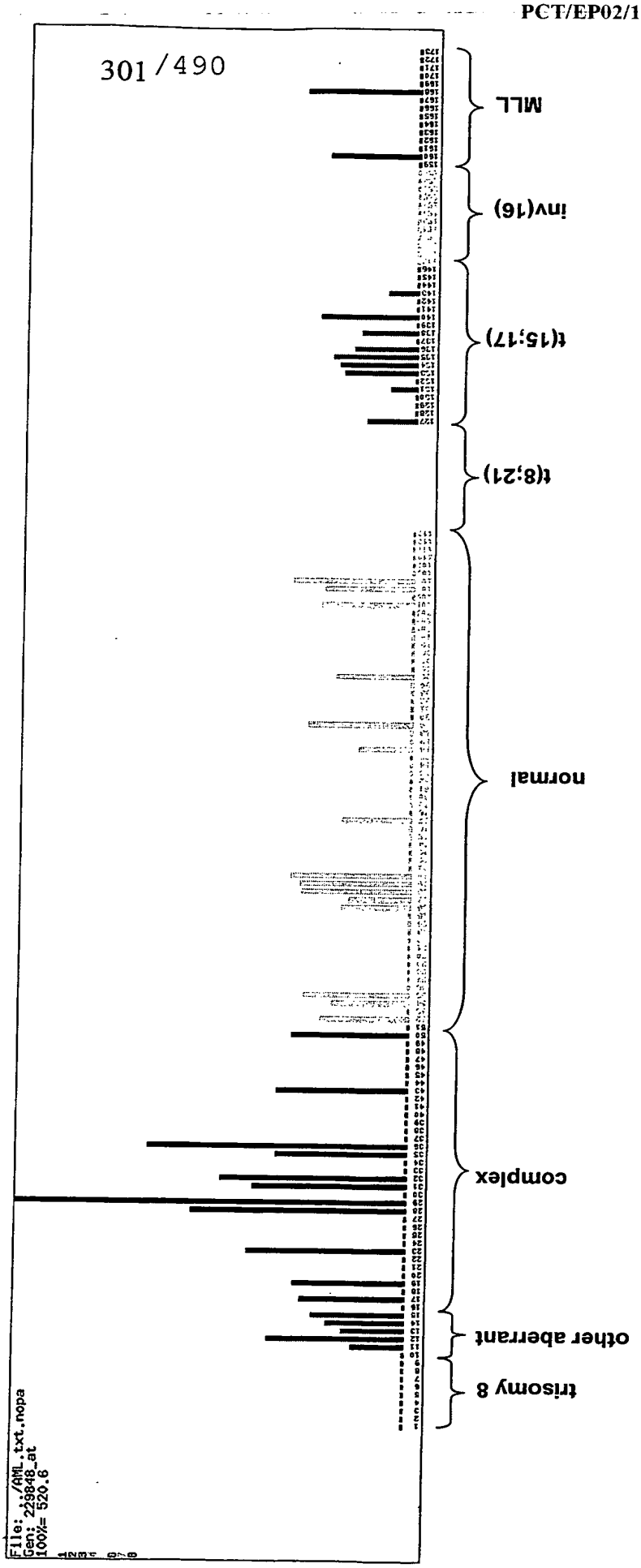

229848_at, ZNF10, trisomy 8 vs. ather aberrant
File: /AML.txt.nopa
Gen: 229848_at
100%= 520.6
trisomy 8
other aberrant
complex
normal
t(8;21)
t(15;17)
inv(16)
MLL

Figure 275

212586_at, ARTS-1, trisomy 8 vs. complex

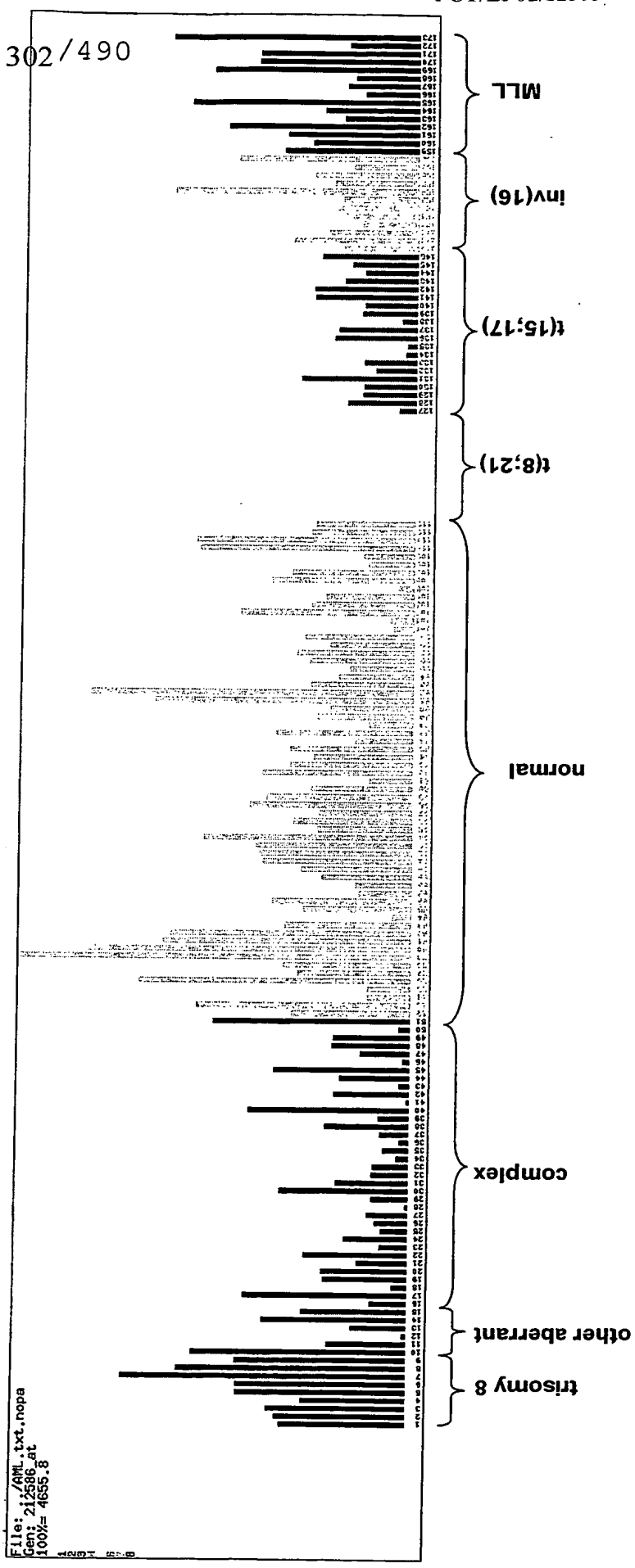


Figure 276

226545_at, trisomy 8 vs. complex

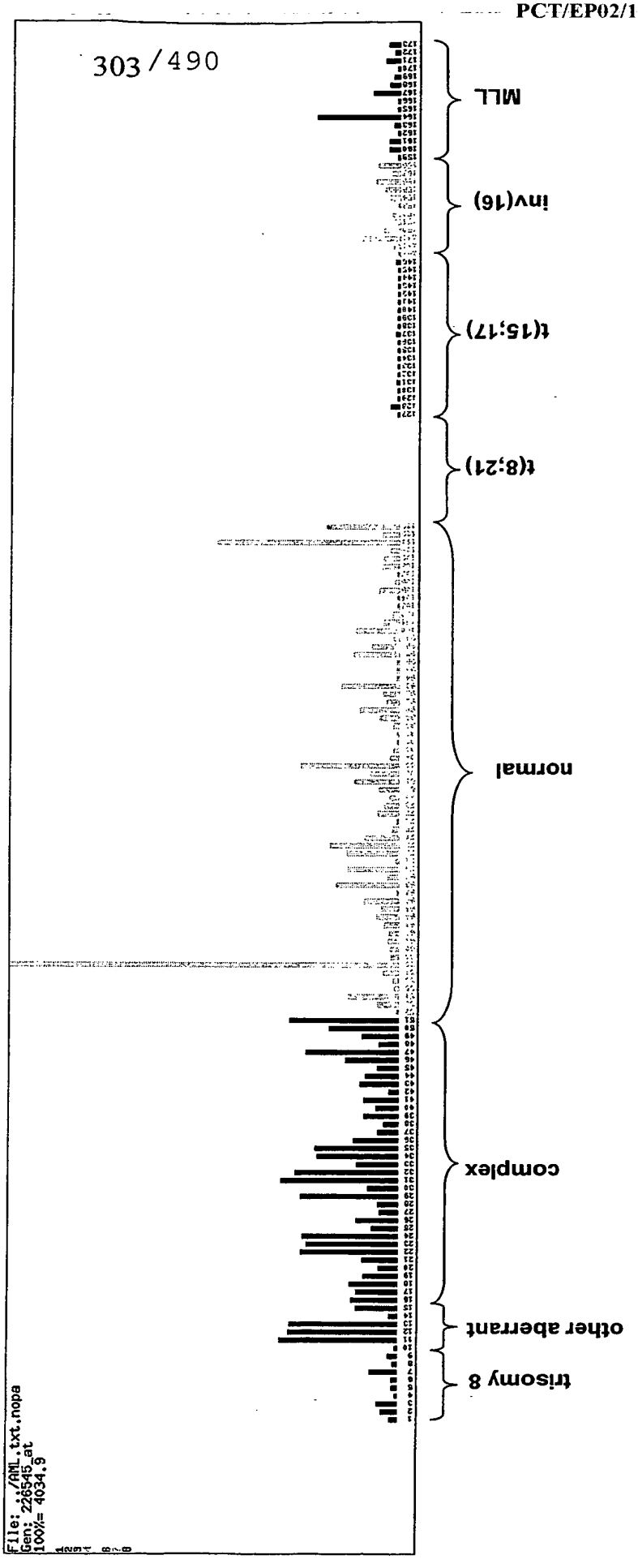


Figure 277

222166_at, trisomy 8 vs. complex

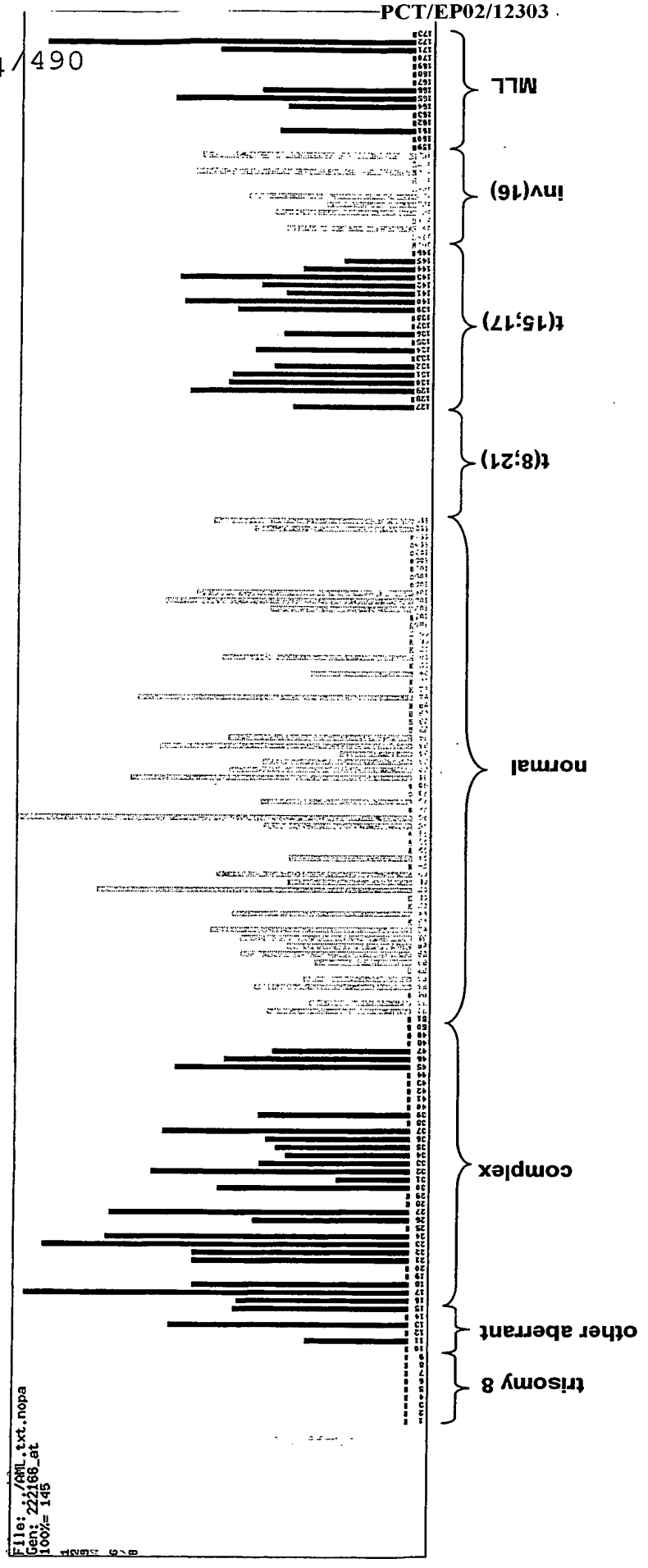


Figure 278

210715_s_at, SPINT2, trisomy 8 vs. complex

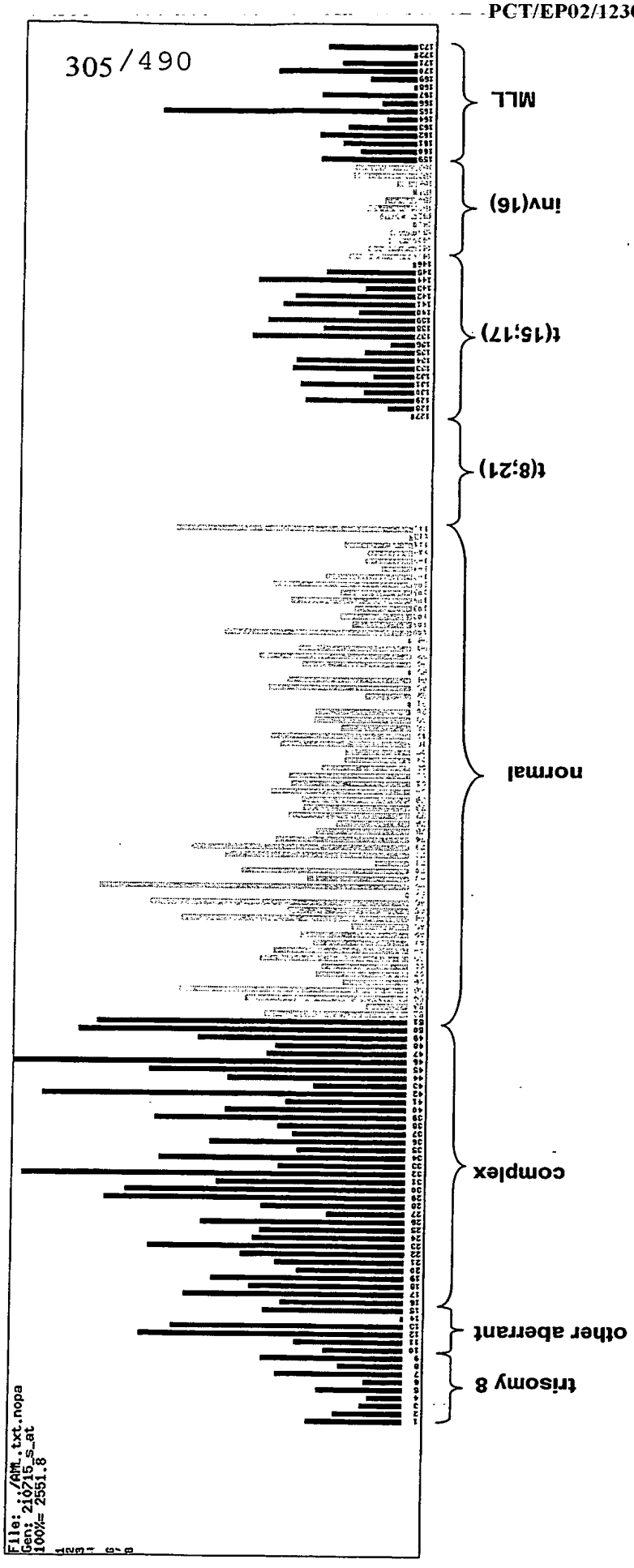


Figure 279

217979_at, NET-6, trisomy 8 vs. complex

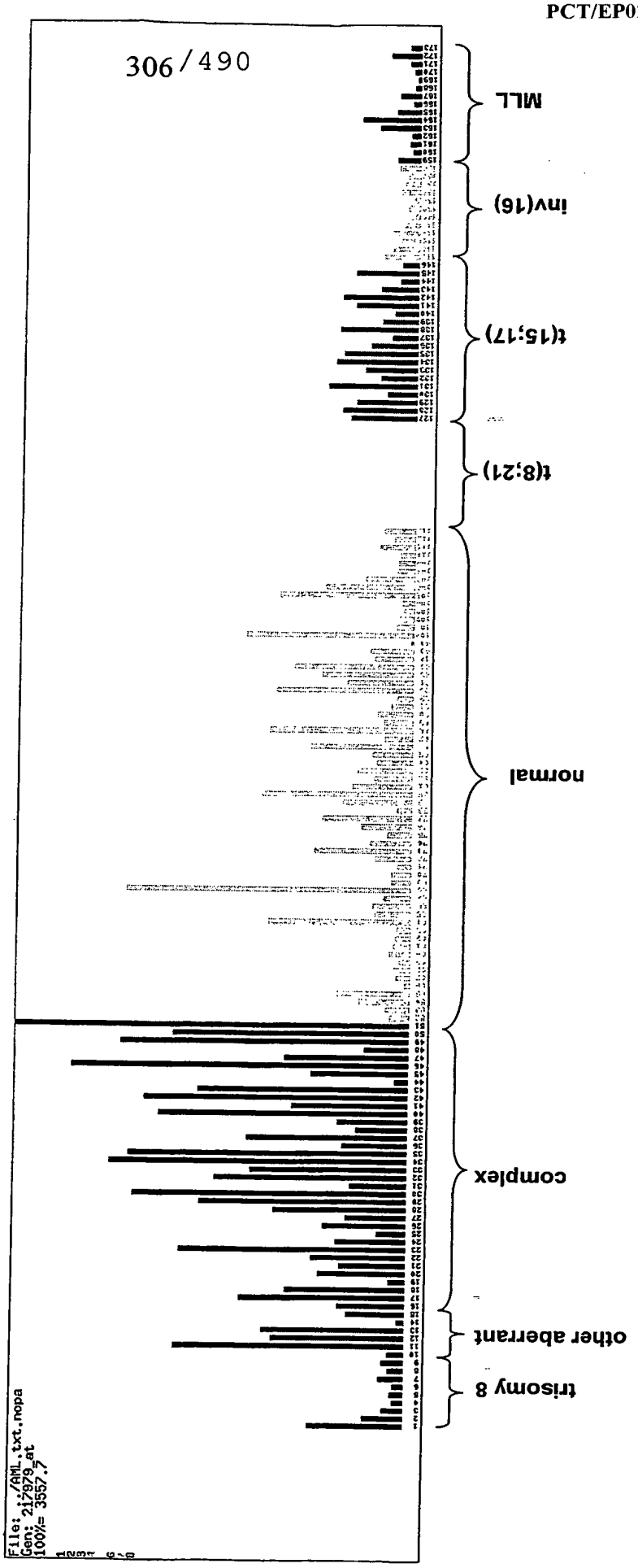


Figure 280

201548_s_at, PLU-1, trisomy 8 vs. complex

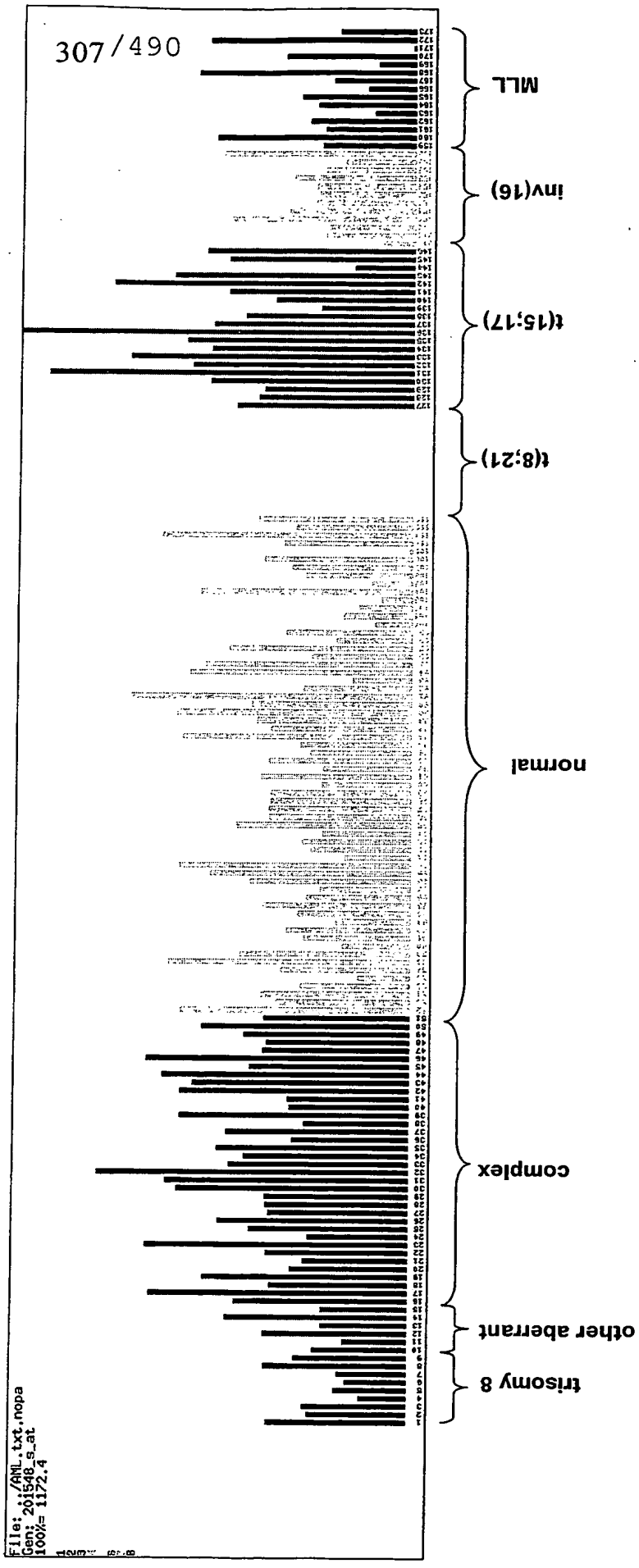
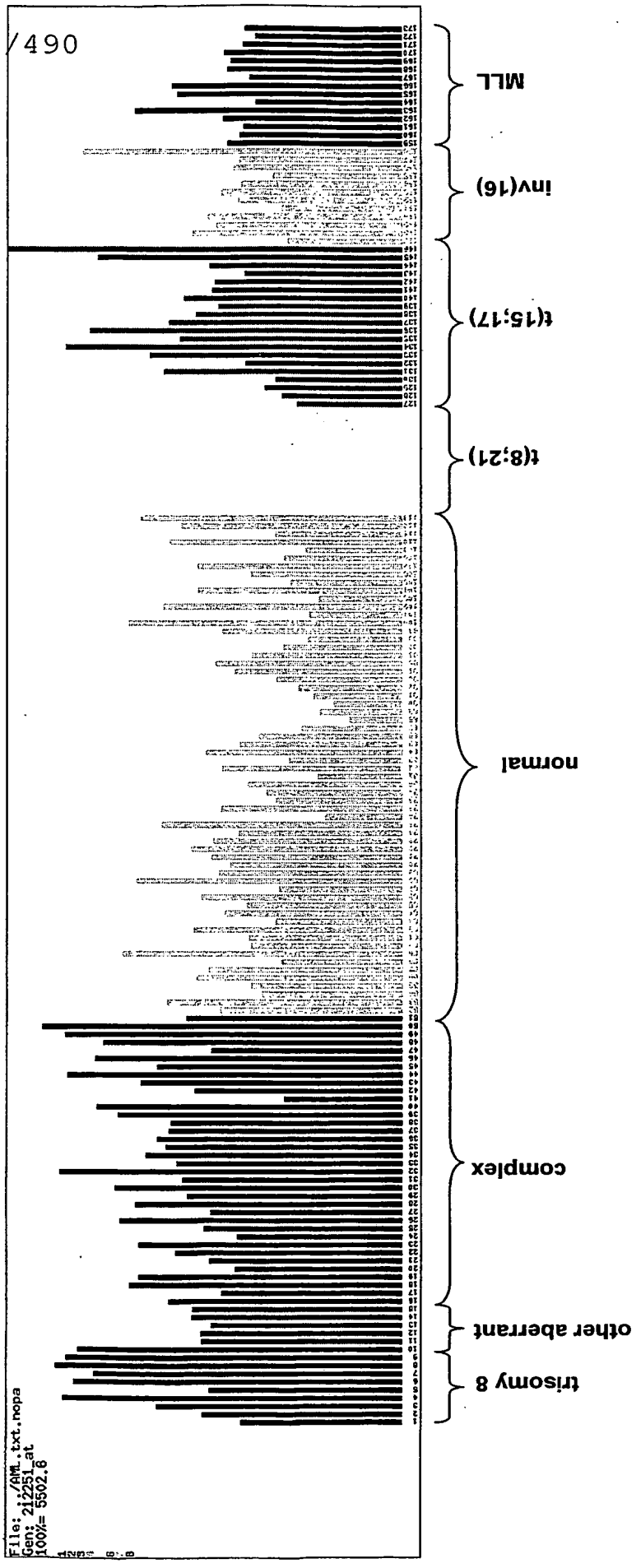


Figure 281

212251_at, trisomy 8 vs. normal

Figure 282



228827_at, trisomy 8 vs. t(8;21)
File: ../AML.txt.nopa
Gen: 228827_at
100%= 1693.8
trisomy 8
other aberrant
complex
normal
t(8;21)
t(15;17)
inv(16)
MLL

Figure 283

214450_at, CTSW, trisomy 8 vs. t(15;17)

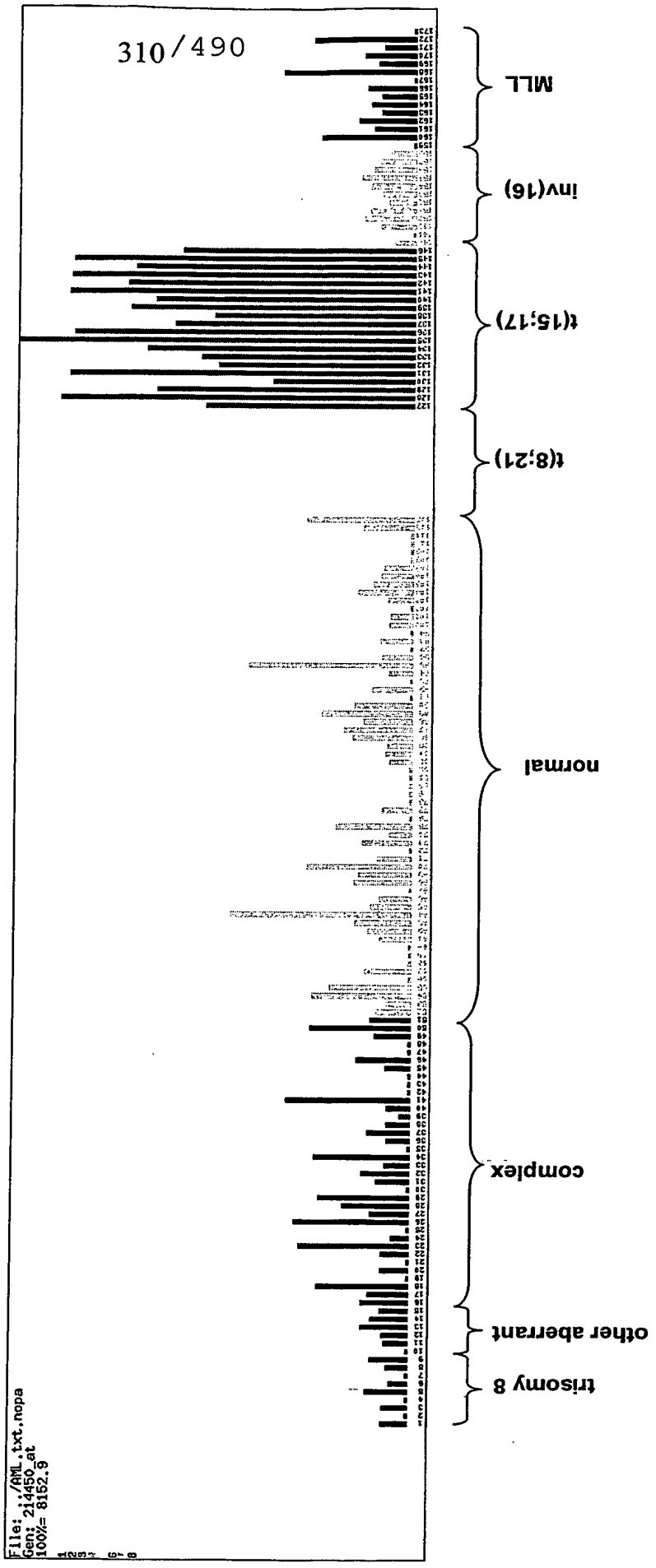


Figure 284

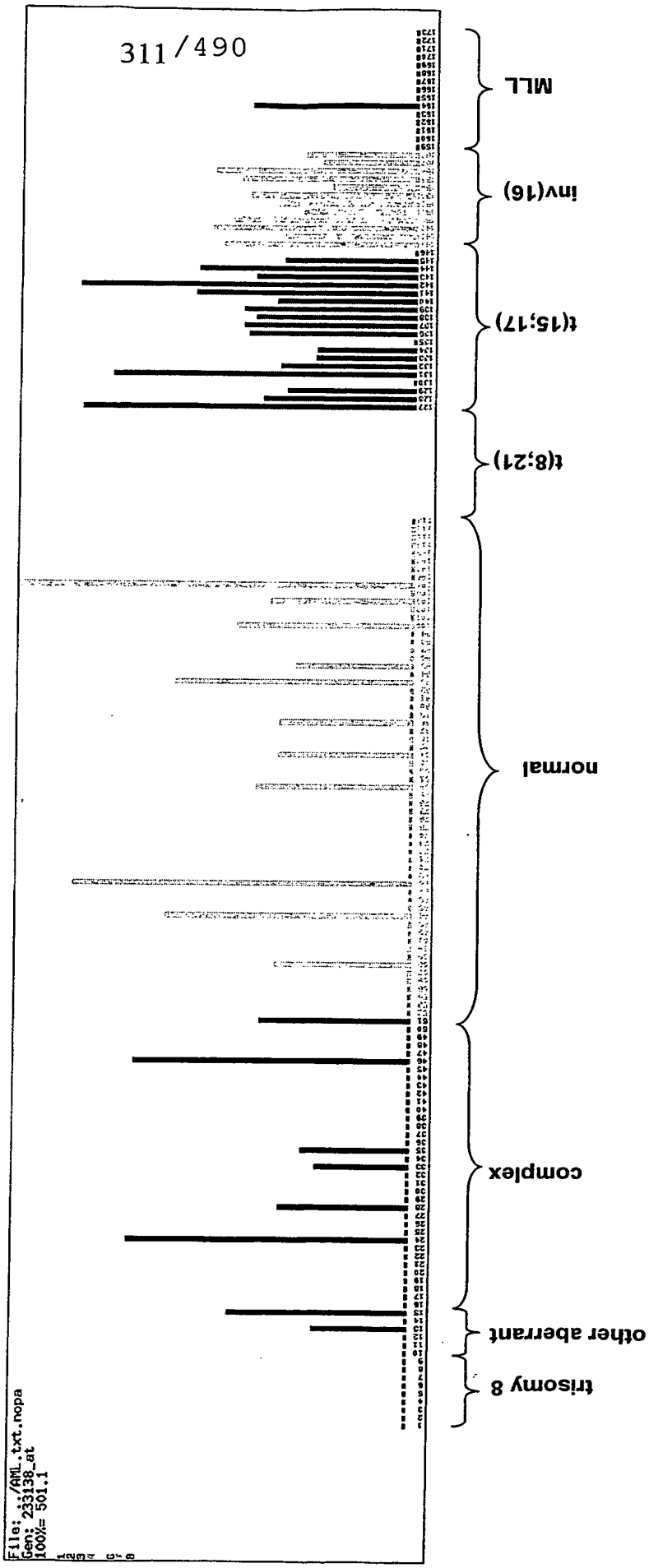

233138_at, trisomy 8 vs. inv(16)
File: ../AML_txt.nopa
Gen: 233138_at
100%= 501.1
MLL
inv(16)
t(15;17)
t(8;21)
normal
complex
other aberrant
trisomy 8

Figure 285

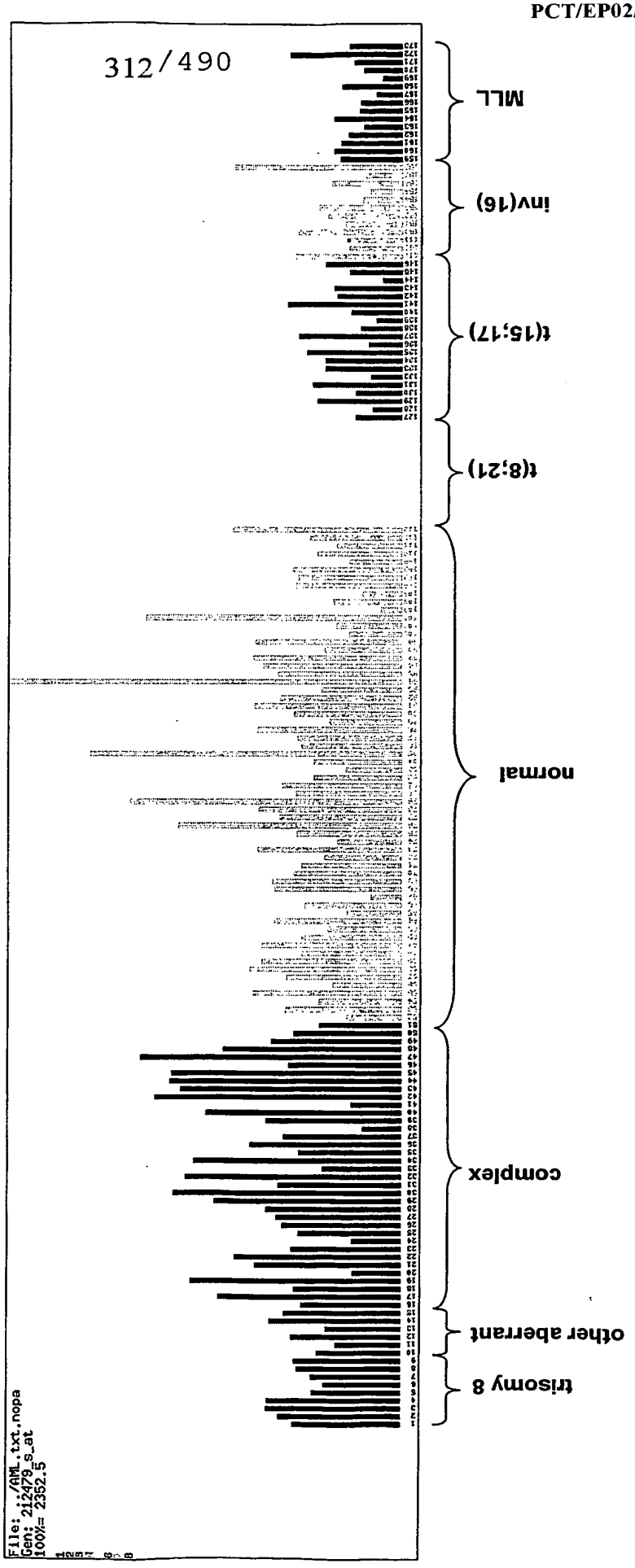

212479_s_at, FLJ13910, trisomy 8 vs. MLL
File: ../AML.txt.nopa
Gen: 212479_s_at
100%= 2352.5
trisomy 8
other aberrant
complex
normal
t(8;21)
t(15;17)
inv(16)
MLL

Figure 286

218172_s_at, PRO2577, trisomy 8 vs. MLL

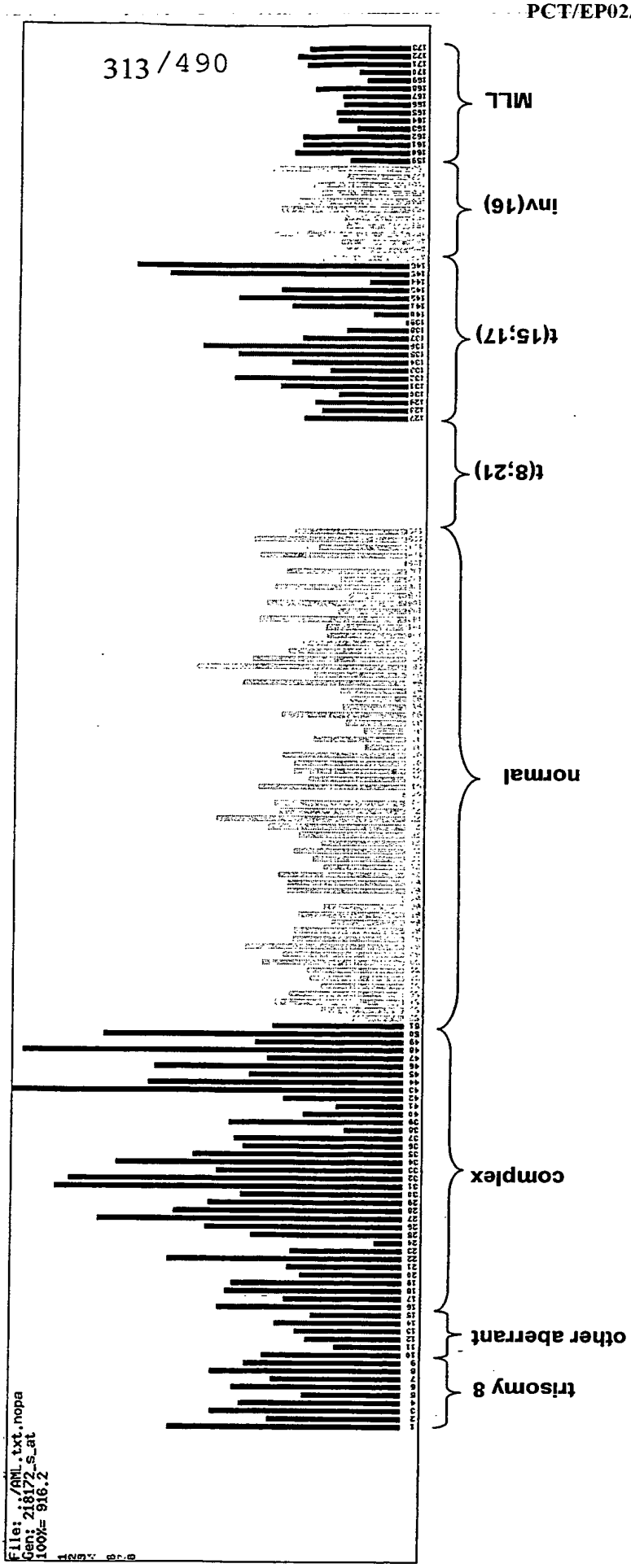


Figure 287

200867_at, trisomy 8 vs. MLL

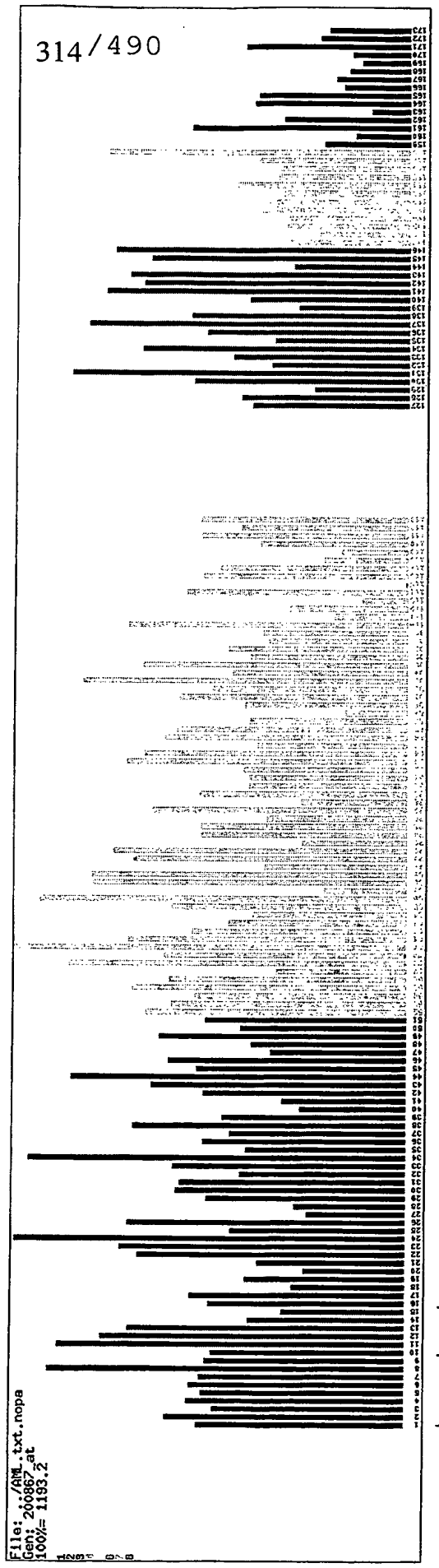


Figure 288

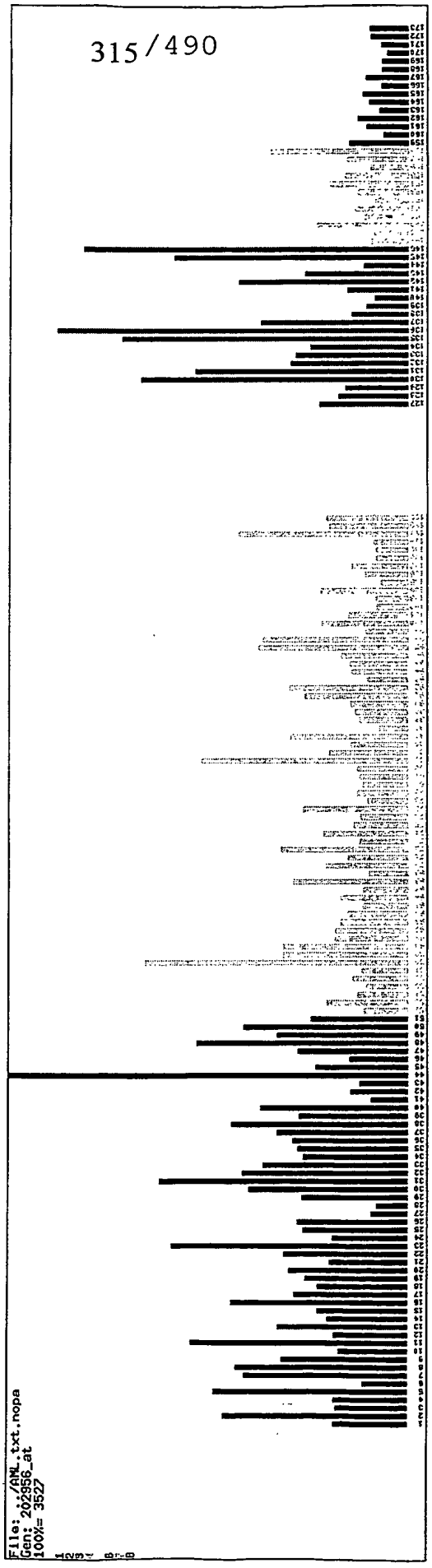

202956_at, BIG1, trisomy 8 vs. MLL
File: ../AML.txt.nopa
Gen: 202956_at
100%= 3527
trisomy 8
other aberrant
complex
normal
t(8;21)
t(15;17)
inv(16)
MLL

Figure 289

236648_at, other aberrant vs. all other AML

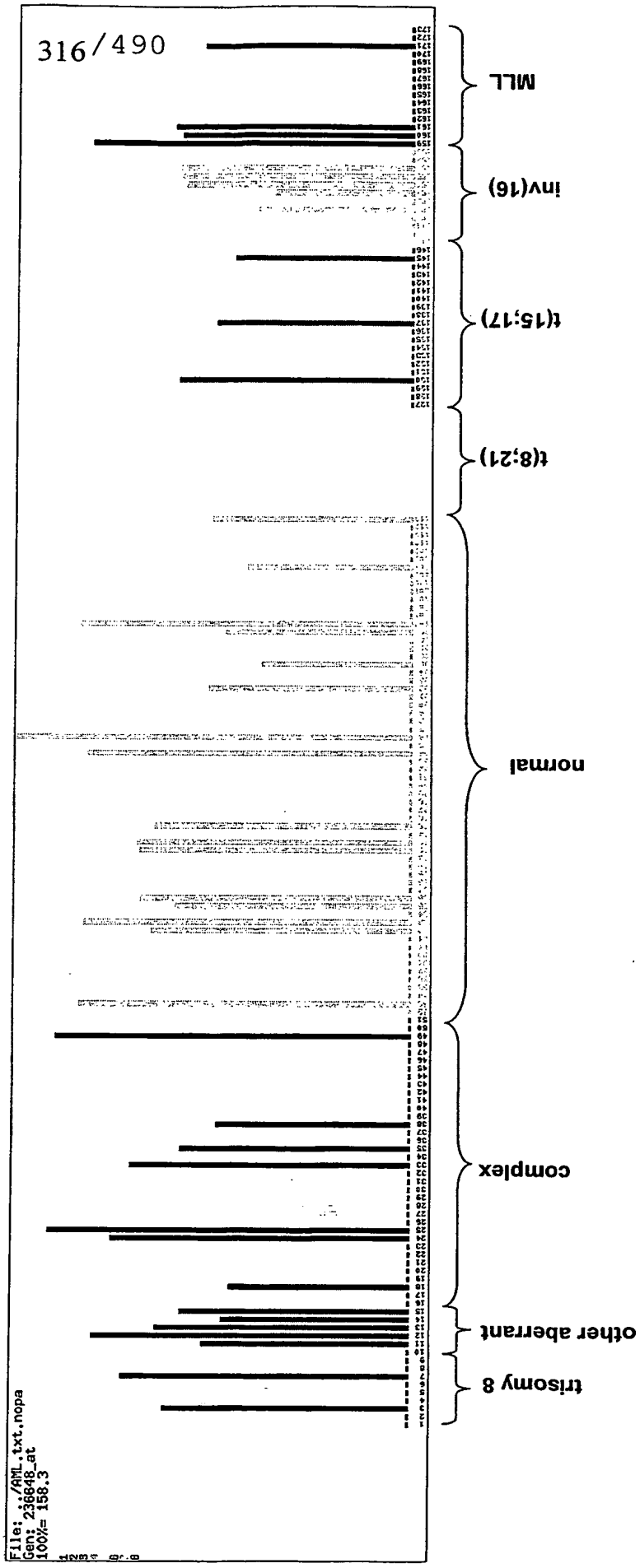


Figure 290

228660_x_at, SEMA4F, other aberrant vs. all other AML

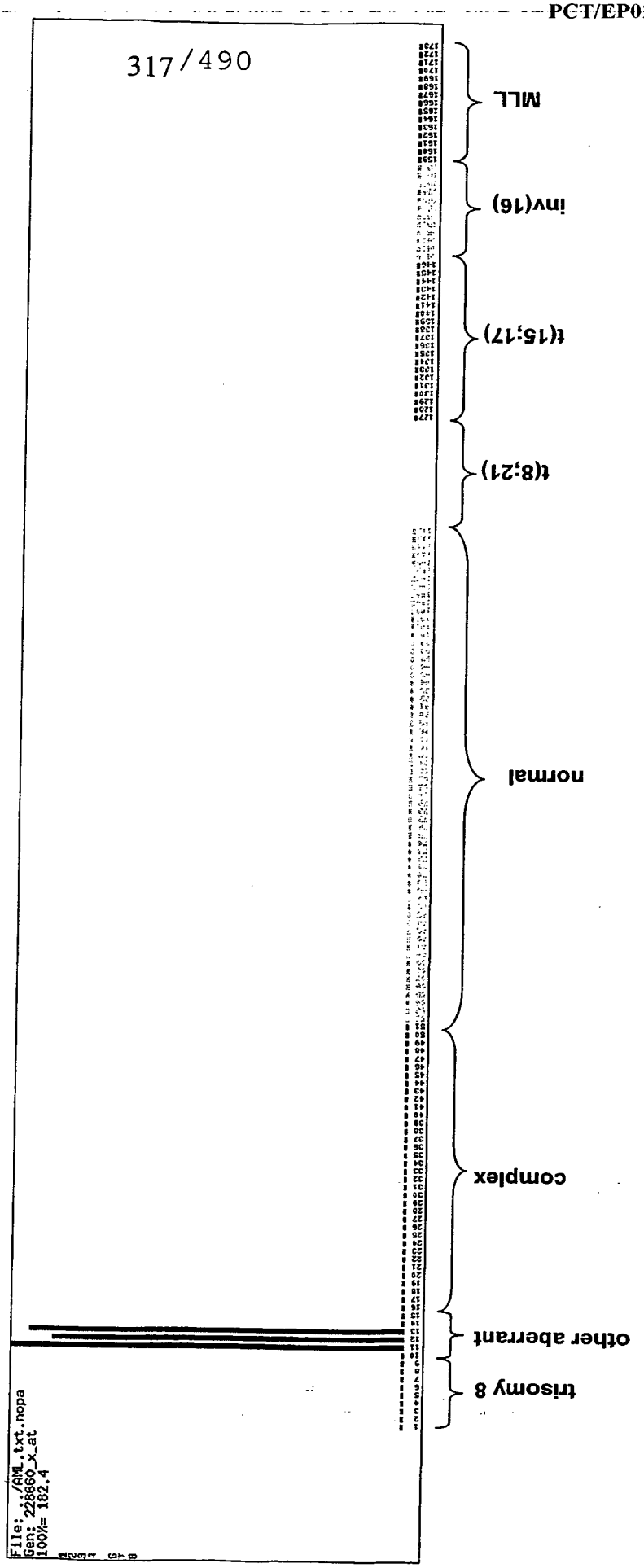
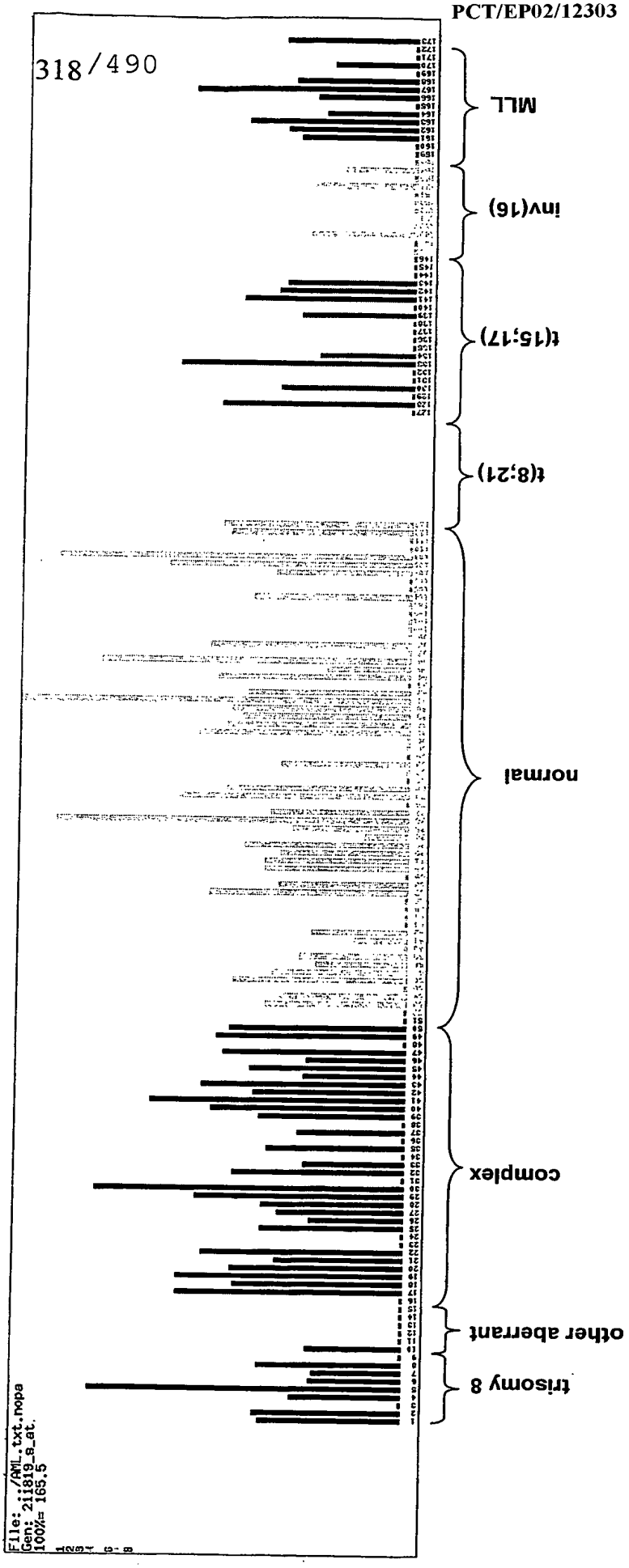


Figure 291

211819_s_at, SH3D5, other aberrant vs. complex

Figure 292



BNSDOCID: <WO_____03039443A2_I_>

233328_x_at, other aberrant vs. complex

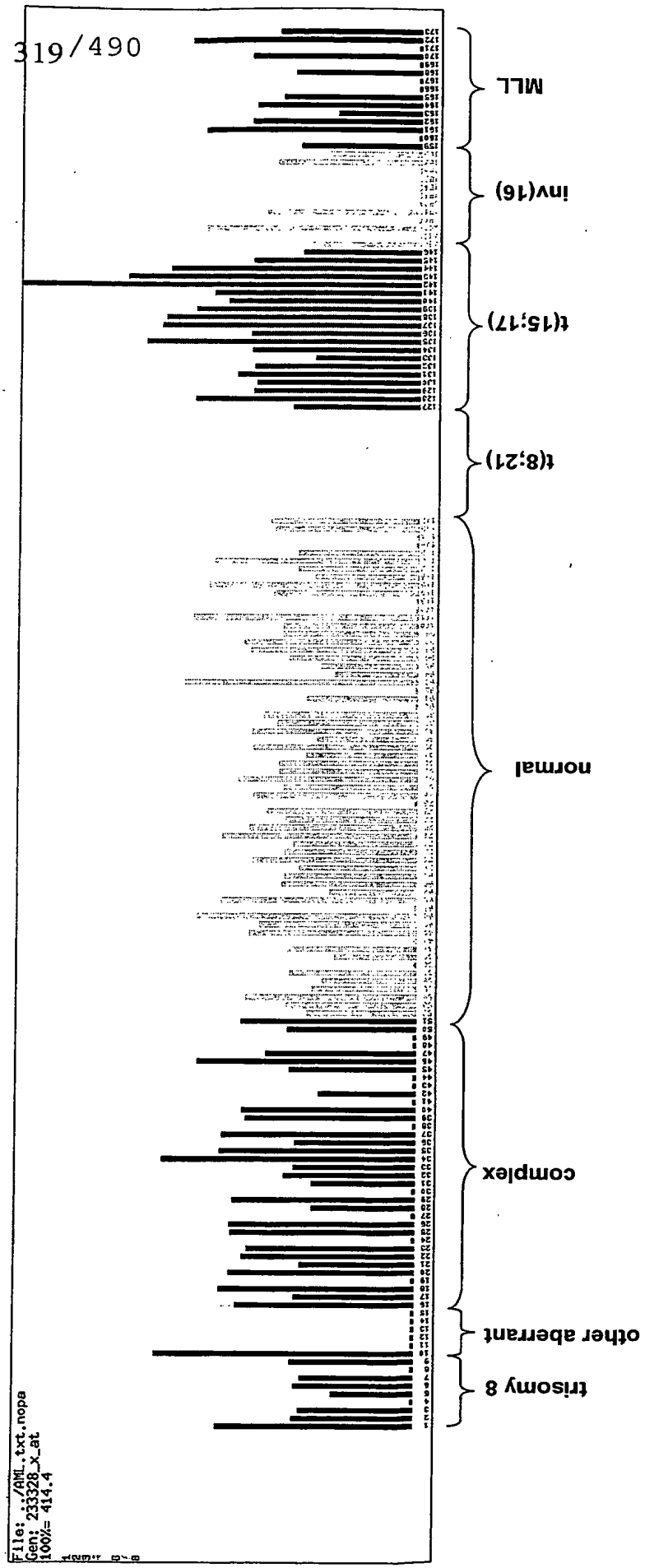


Figure 293

229003_x_at, other aberrant vs. complex

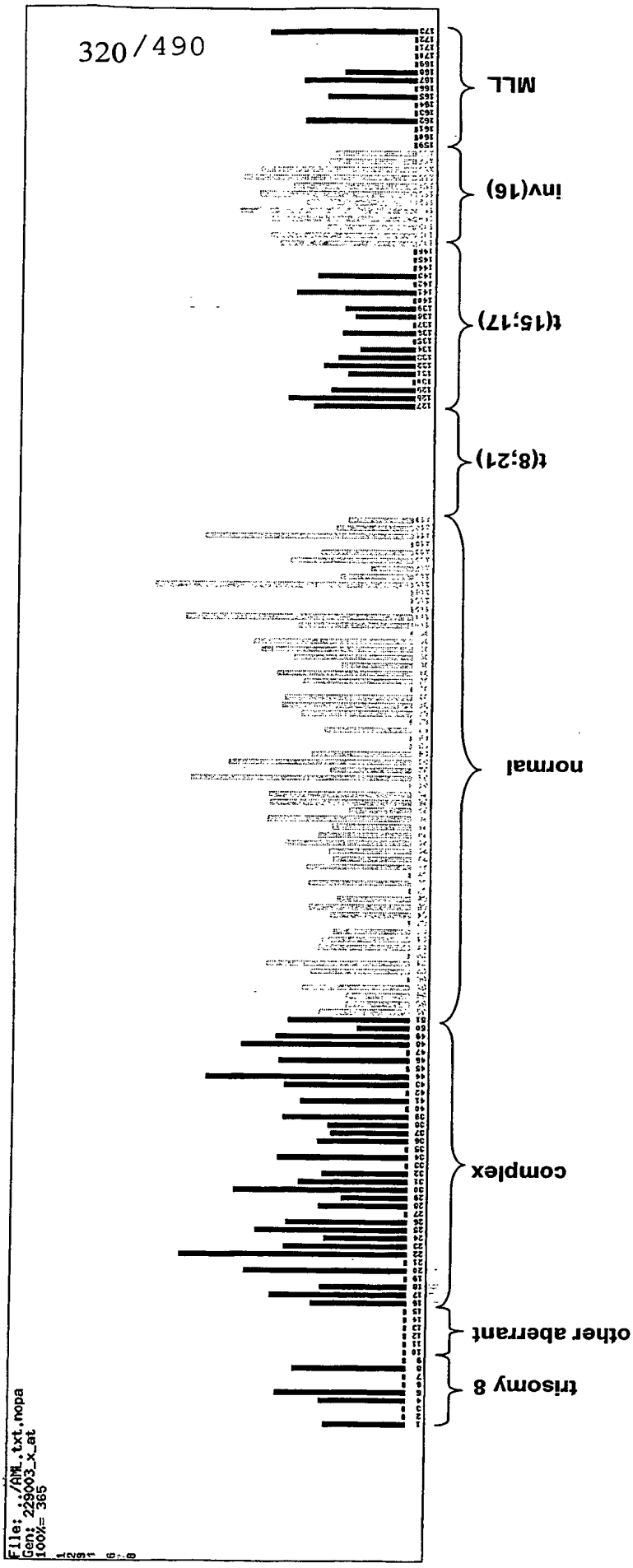


Figure 294

233328_x_at, other aberrant vs. normal

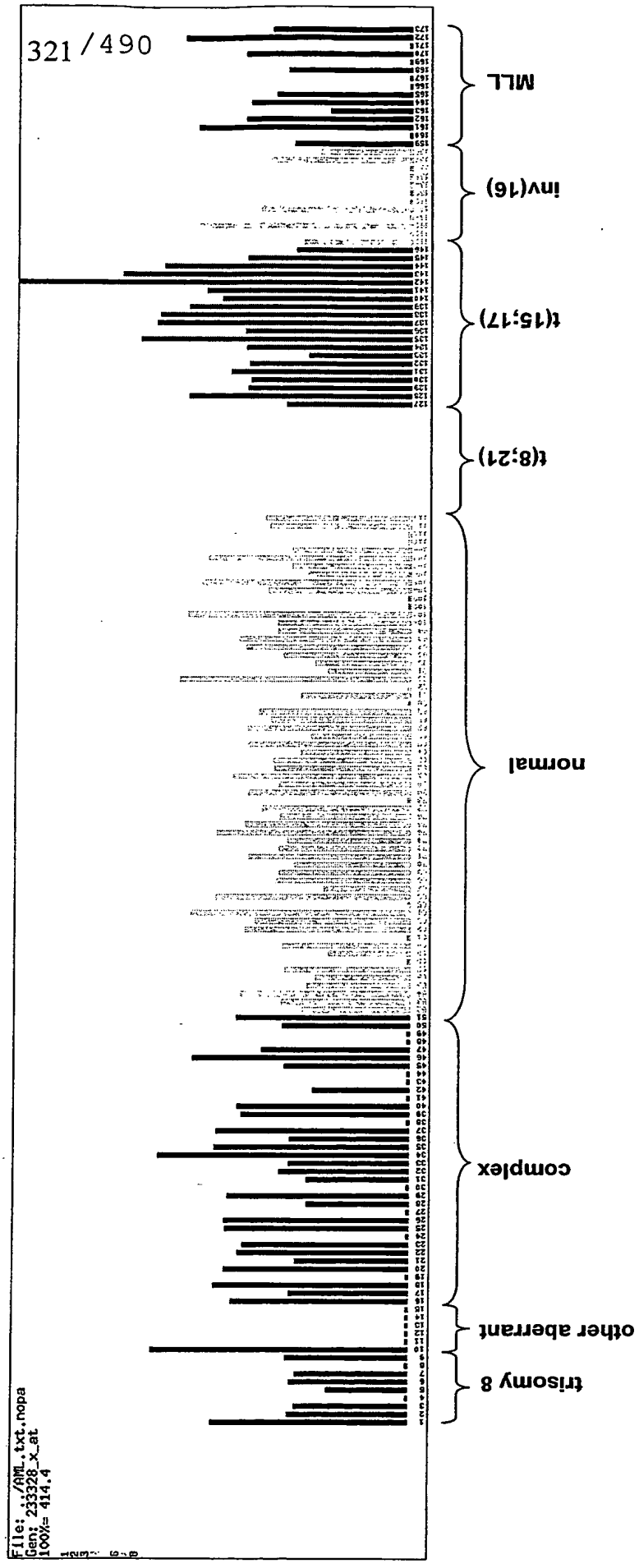


Figure 295

213725_x_at, other aberrant vs. normal

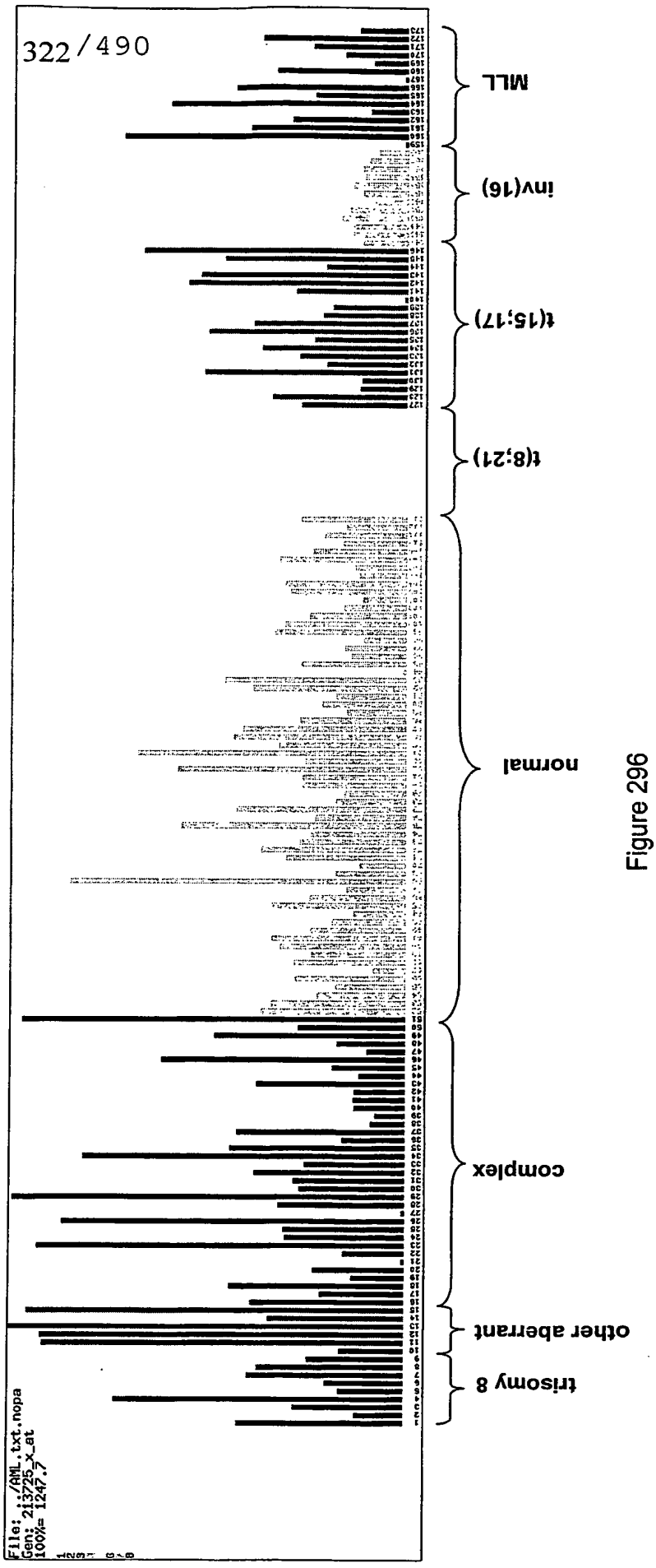


Figure 296

221770_at, RPE, other aberrant vs. t(8;21)

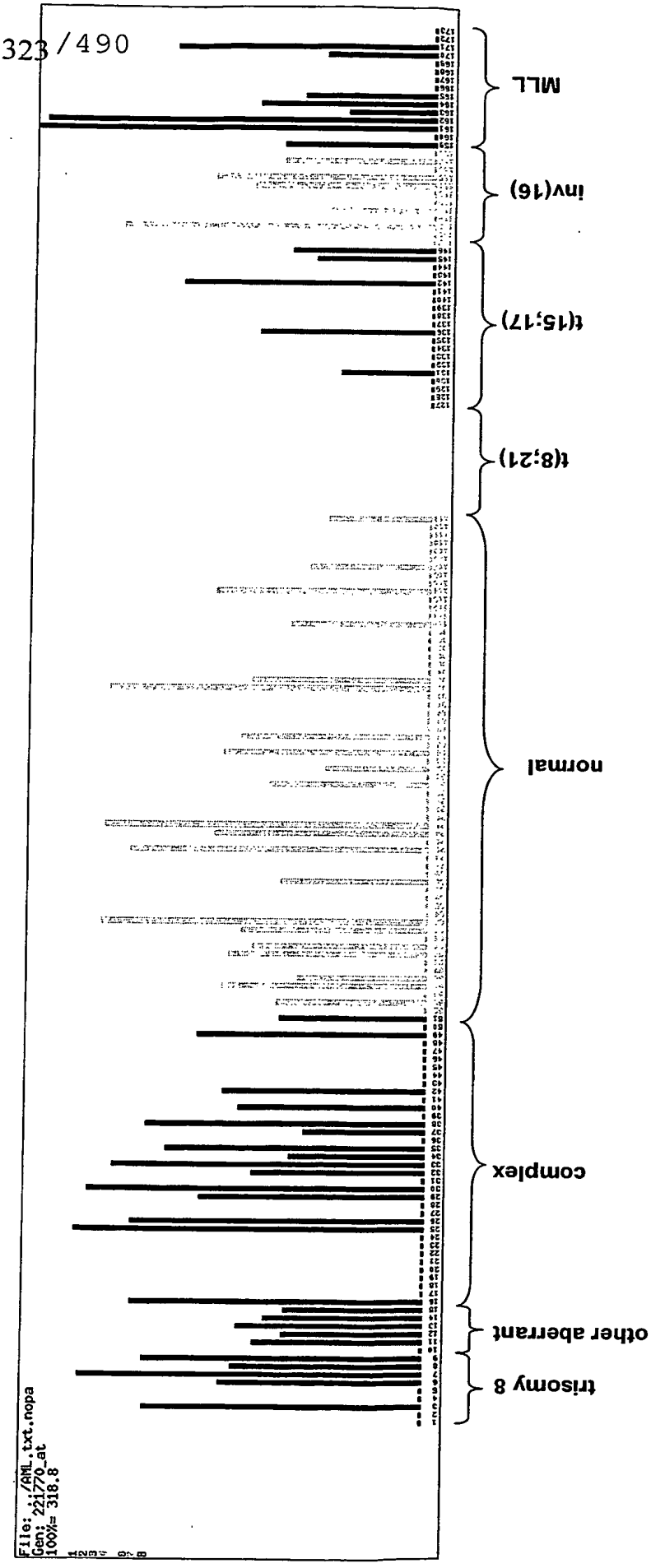


Figure 297

213716_s_at, SECTM1, other aberrant vs. t(15;17)

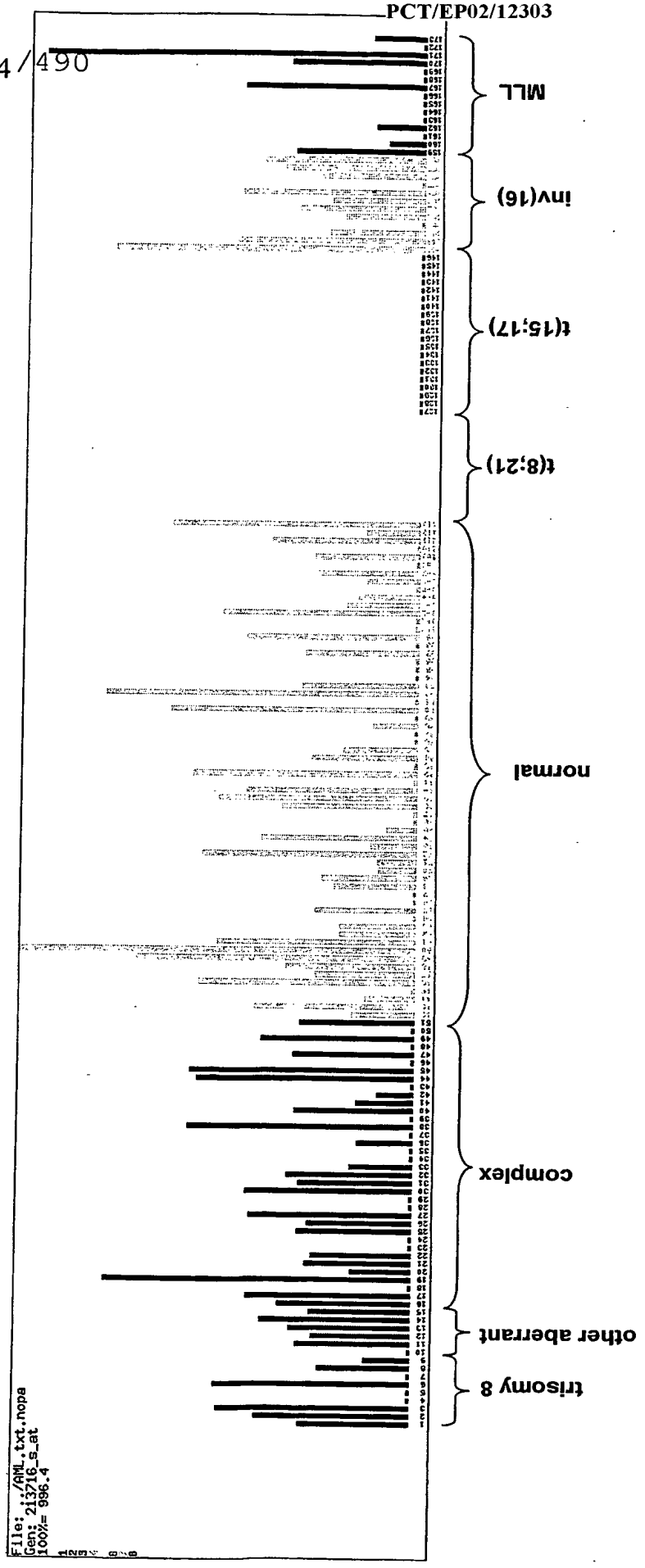
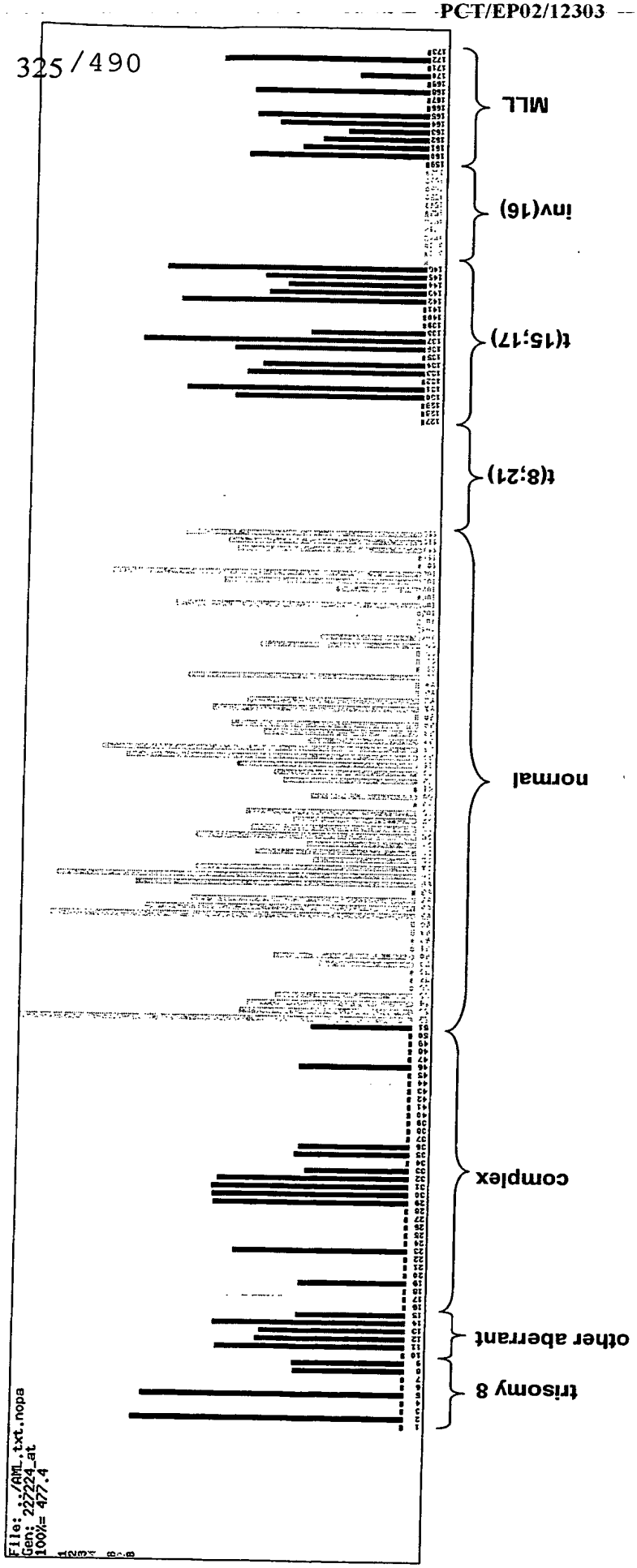


Figure 298

227224_at, other aberrant vs. inv(16)

Figure 299



232125_at, other aberrant vs. MLL

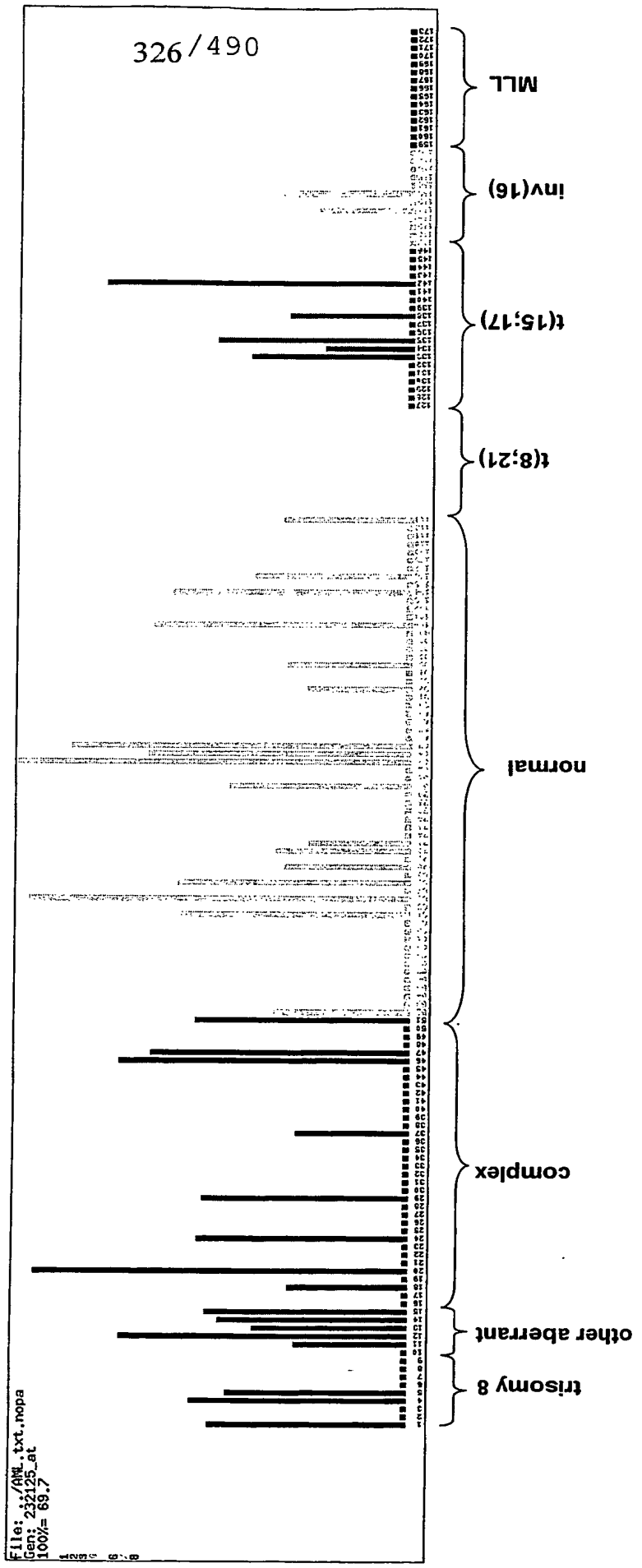


Figure 300

200608_s_at, RAD21, complex vs. all other AML

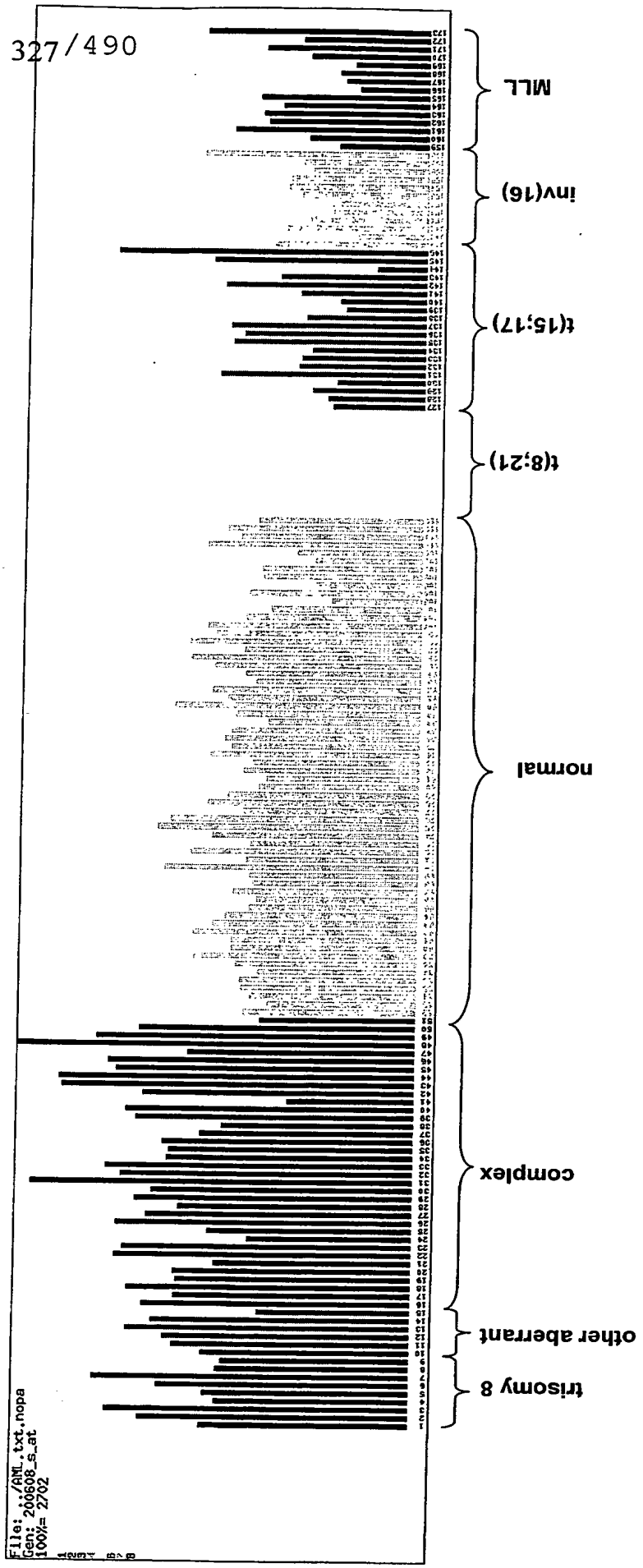


Figure 301

209085_x_at, RFC1, complex vs. all other AML

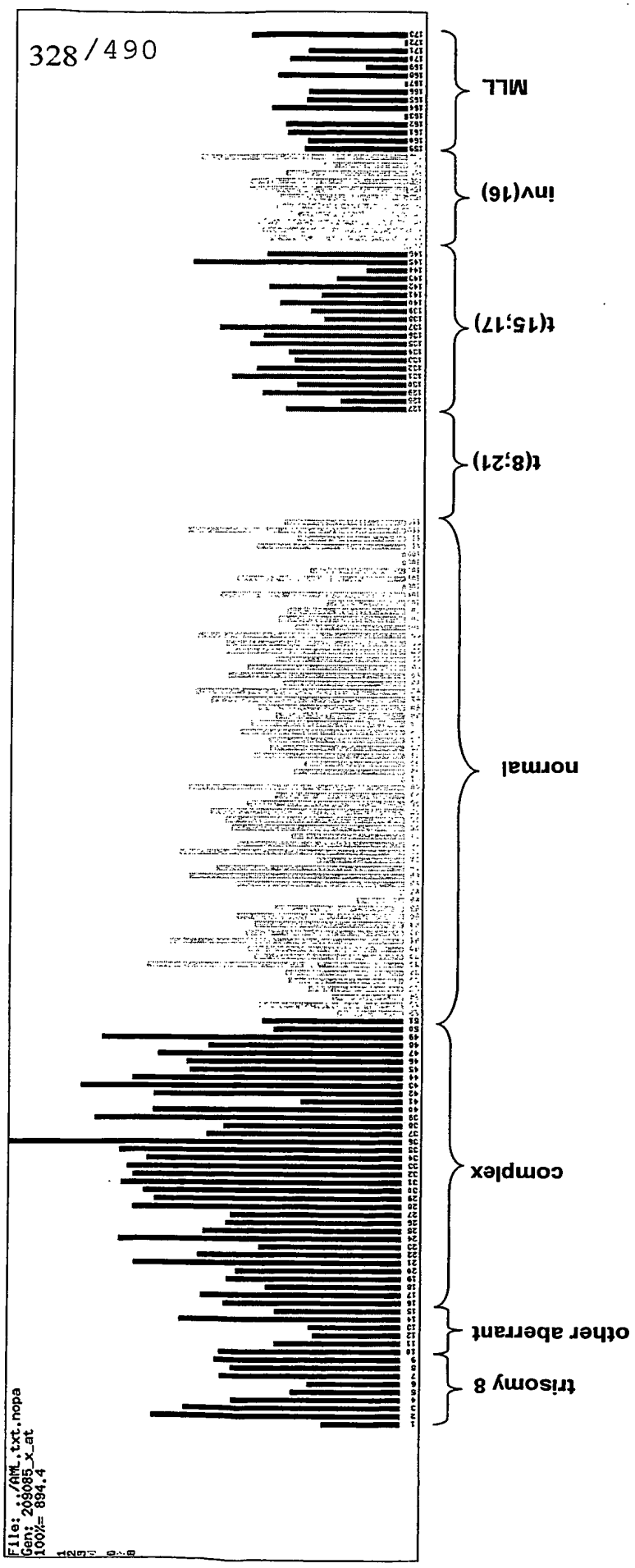


Figure 302

201922_at, YR-29, complex vs. normal

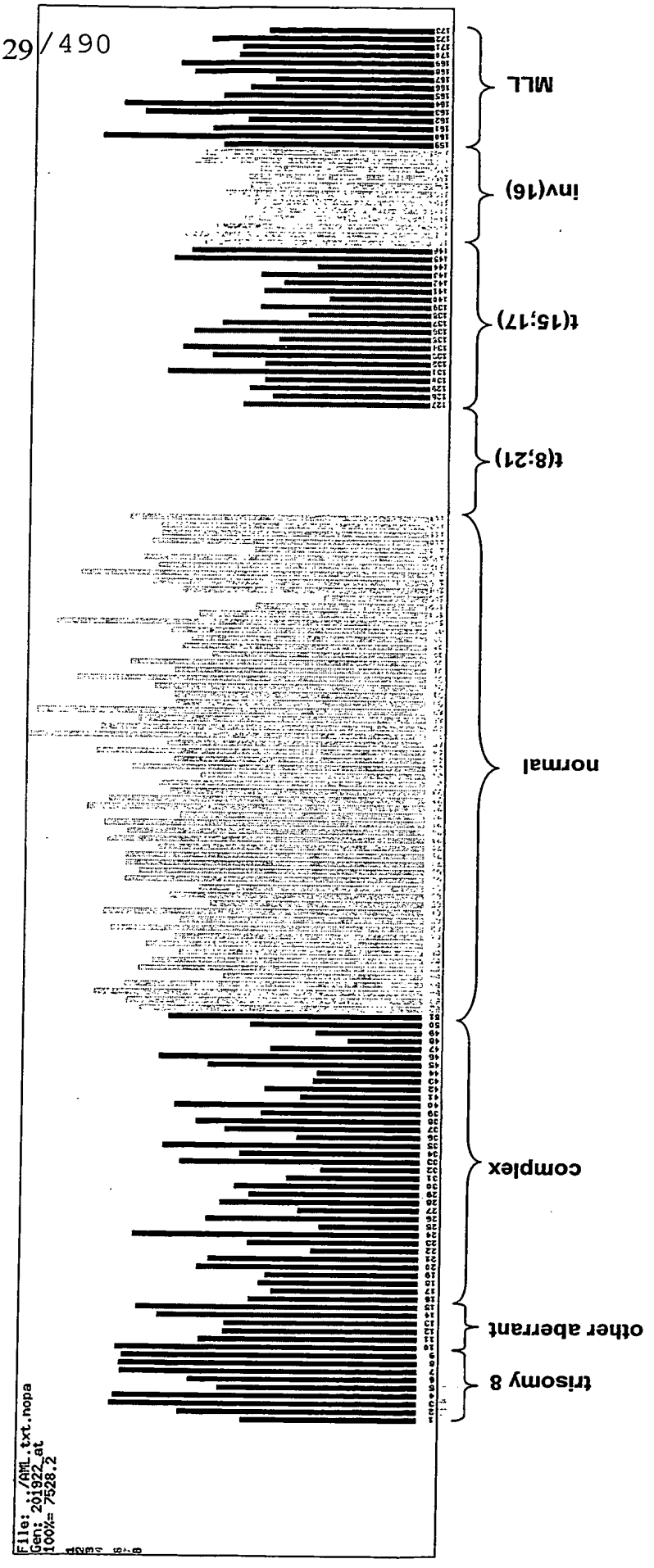


Figure 303

239791_at, HOXB6, complex vs. normal

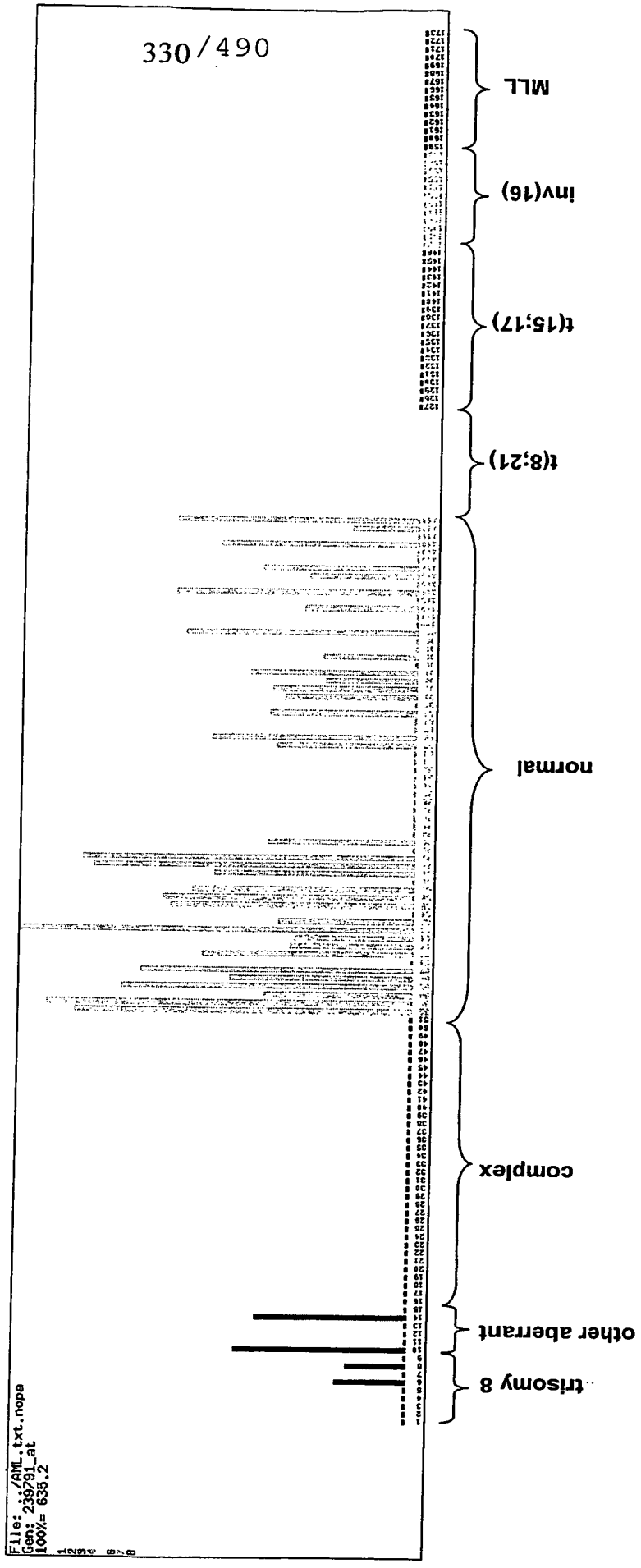


Figure 304

200608_s_at, RAD21, complex vs. normal

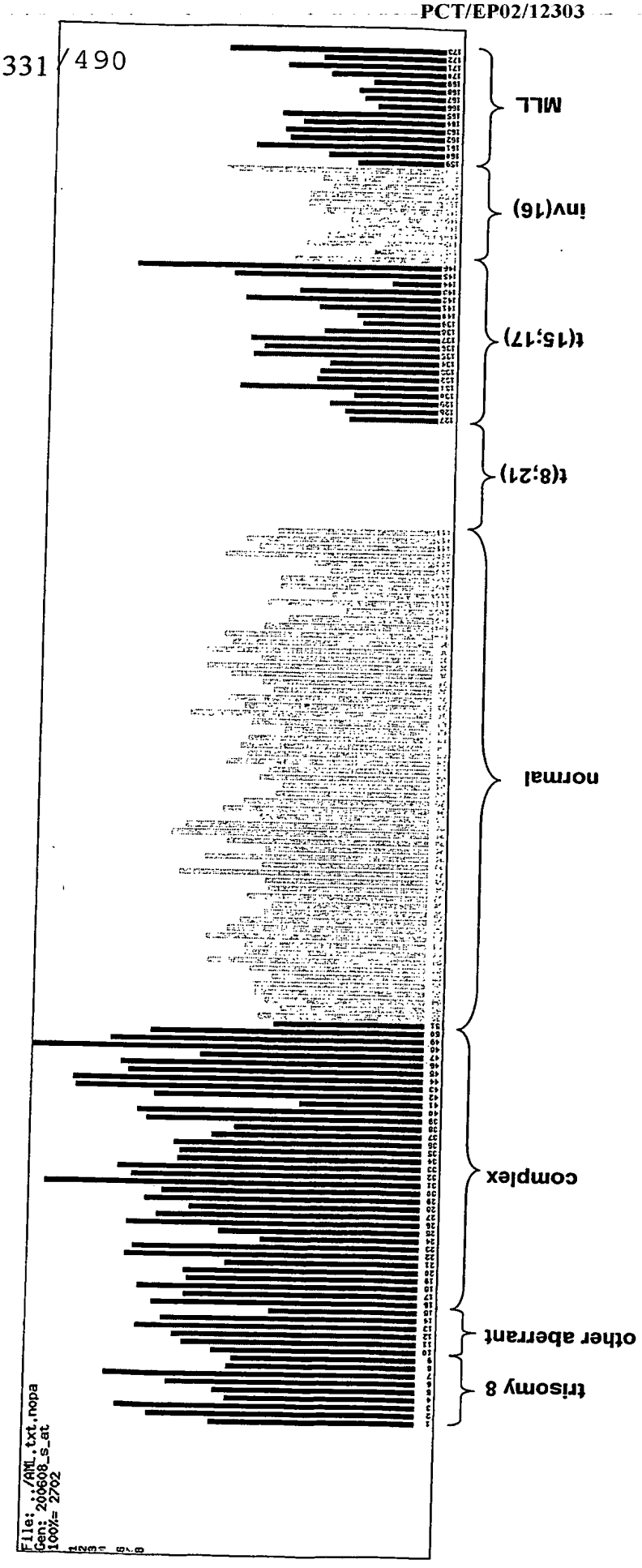


Figure 305

211950_at, RBAF600, complex vs. normal

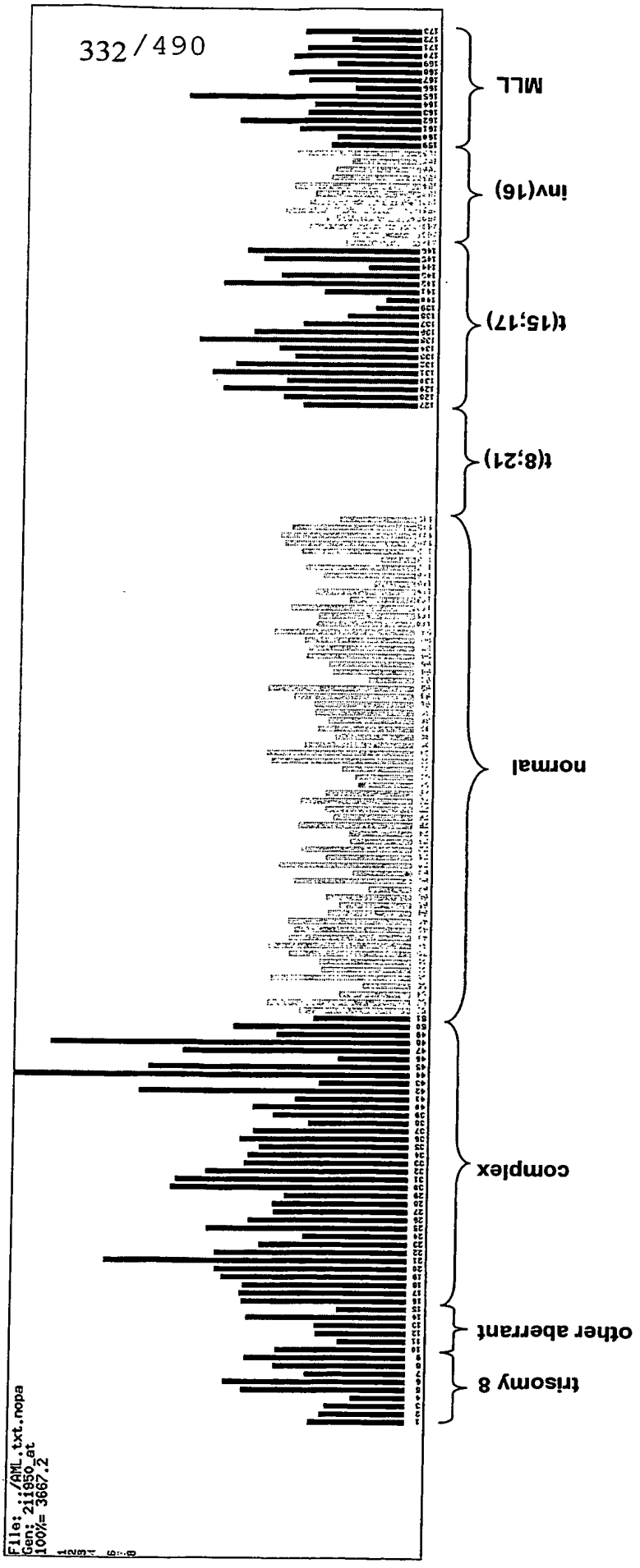


Figure 306

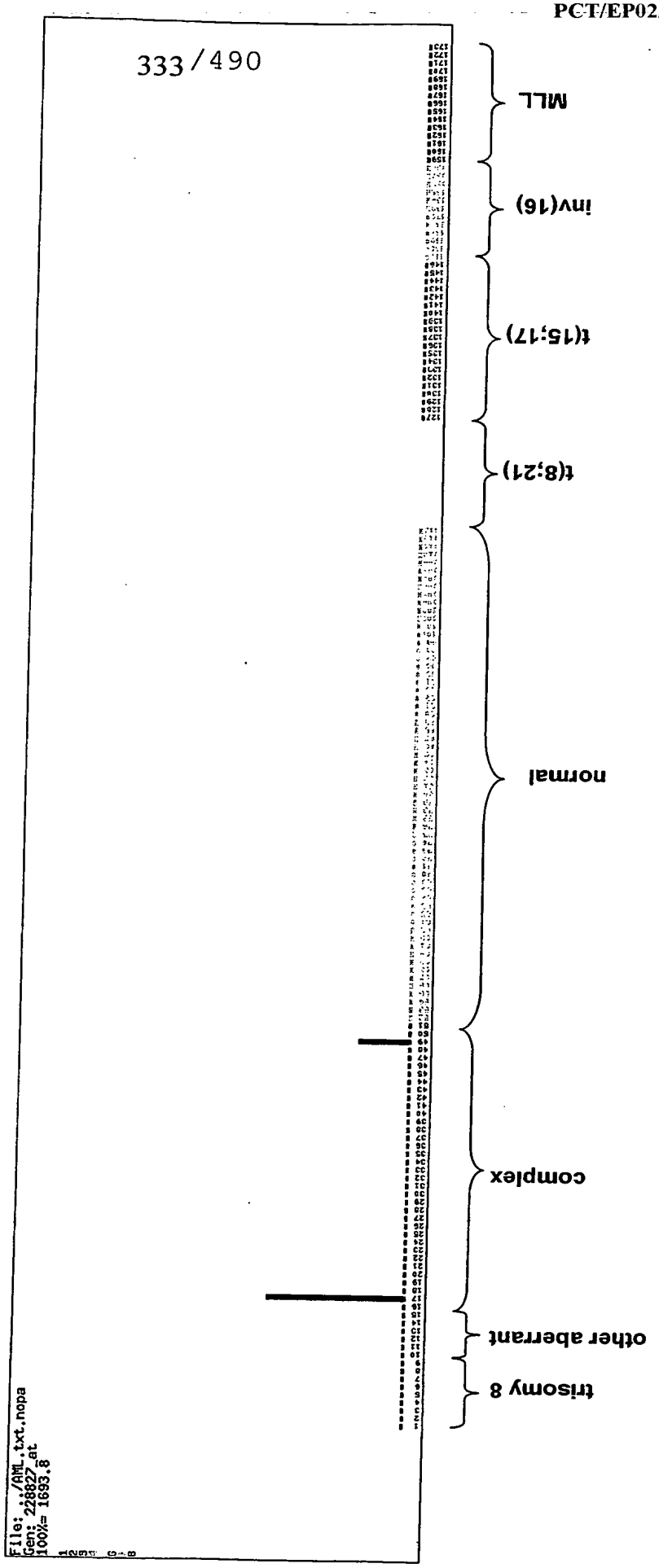

228827_at, complex vs. t(8;21)
File: ../AML.txt.nopa
Gen: 228827_at
100%= 1693.8
trisomy 8
other aberrant
complex
normal
t(8;21)
t(15;17)
inv(16)
MLL

Figure 307

204249_s_at, LMO2, complex vs. t(8;21)

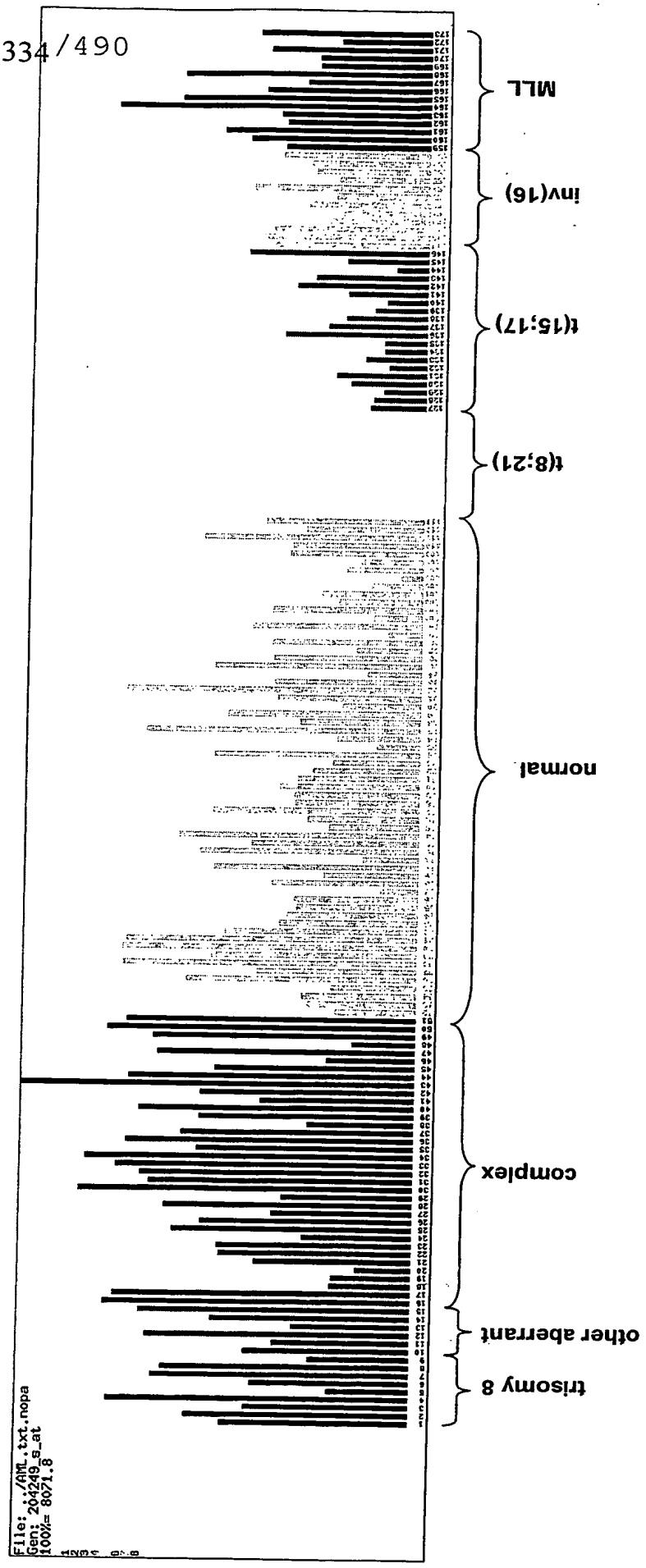


Figure 308

212953_x_at, CALR, complex vs. t(15;17)

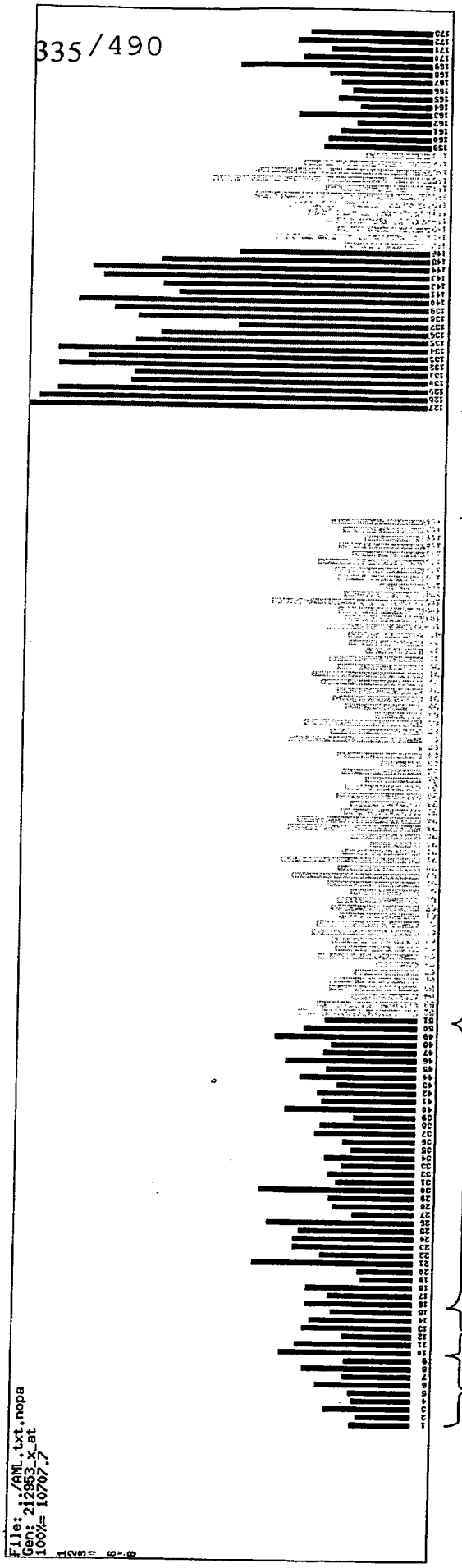


Figure 309

209190_s_at, DIAPH1, complex vs. inv(16)

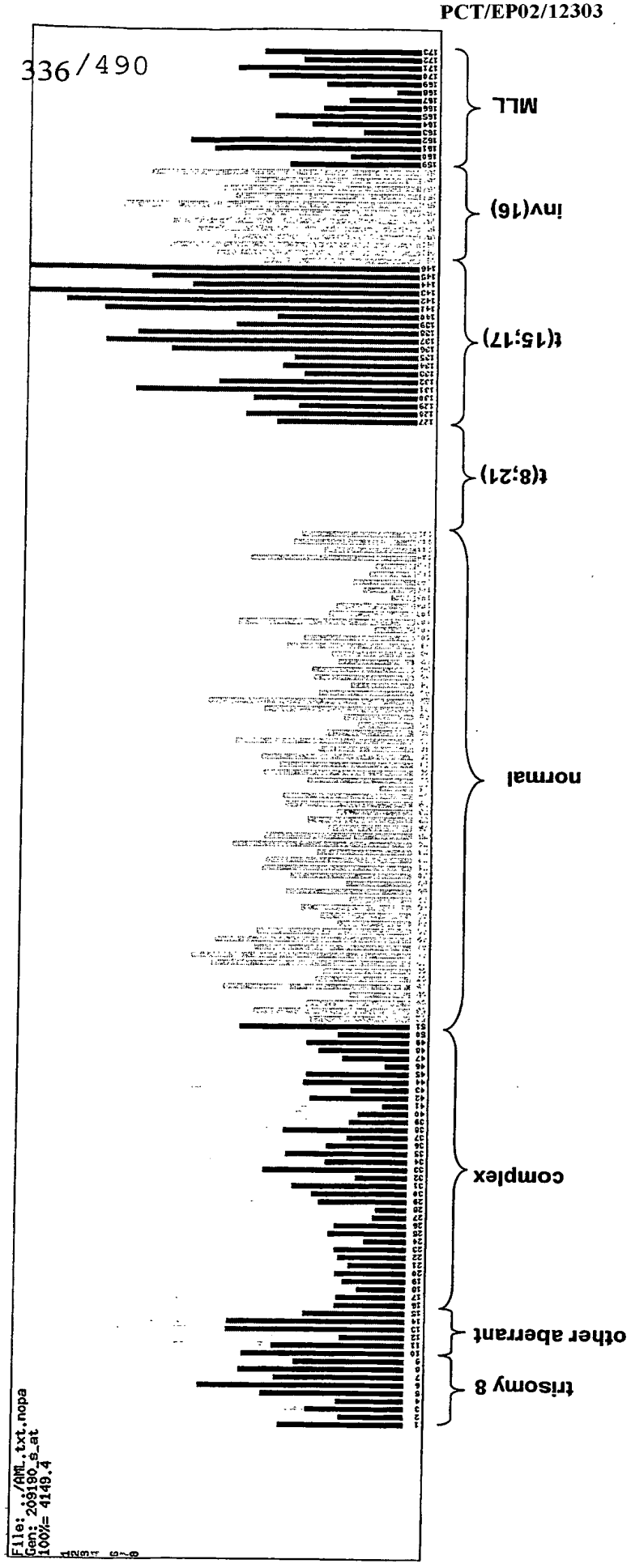


Figure 310

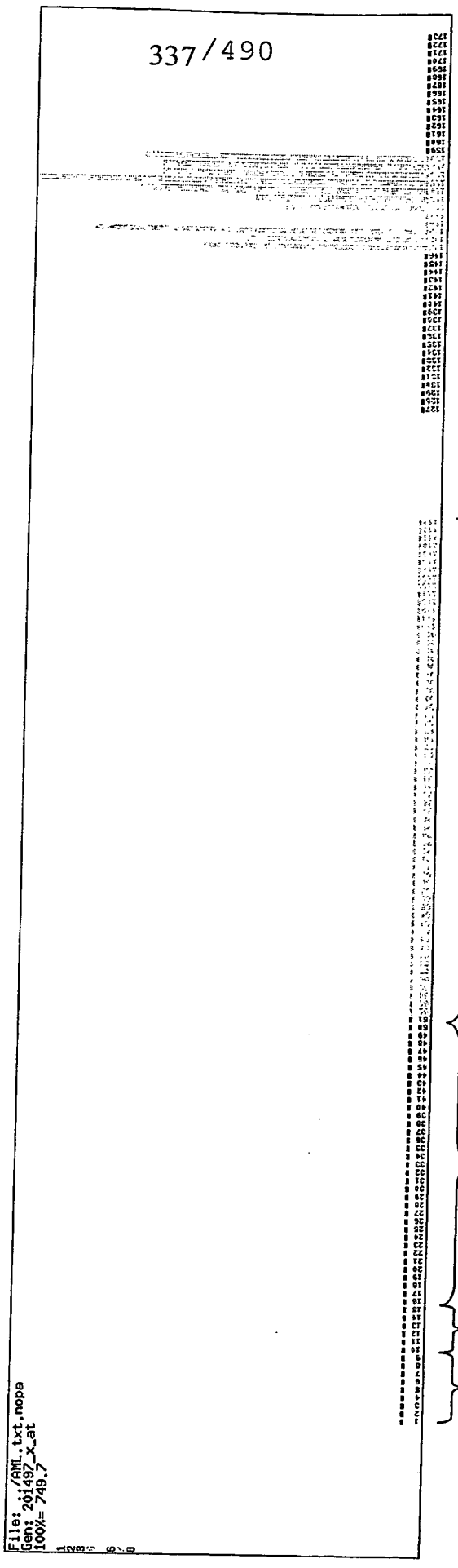

201497_x_at, MYH11, complex vs. inv(16)
File: /AML.txt.nopa
Gen: 201497_x_at
100%= 749.7
trisomy 8
other aberrant
complex
normal
t(8;21)
t(15;17)
inv(16)
MLL

Figure 311

200675_at, CD81, complex vs. inv(16)

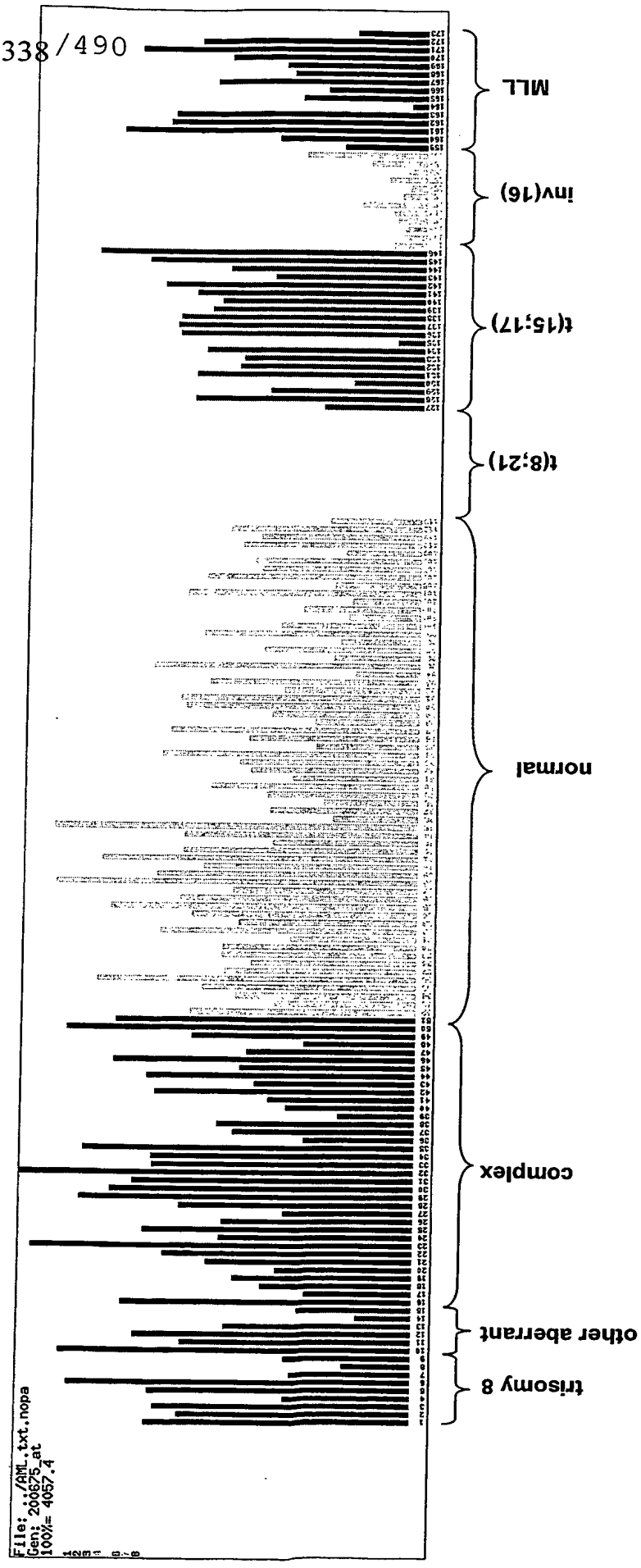


Figure 312

202746_at, complex vs. MLL

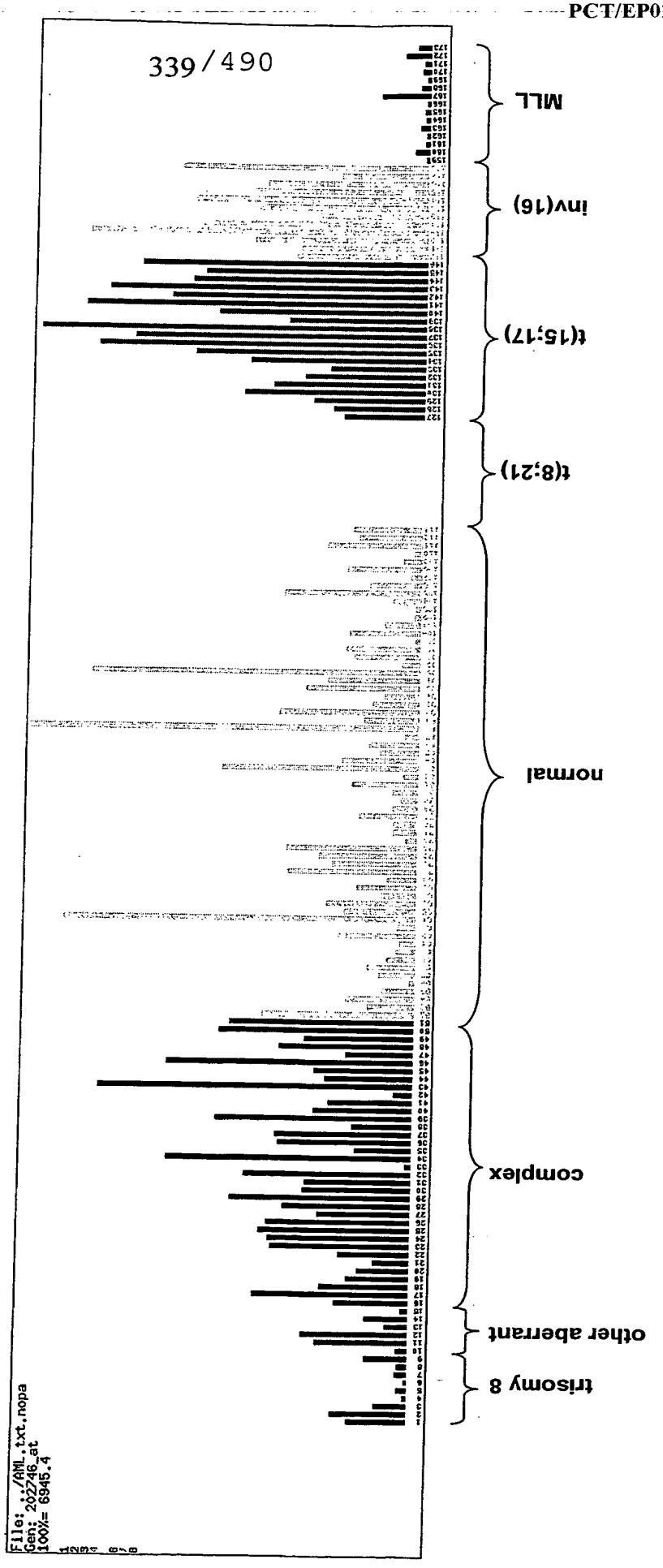


Figure 313

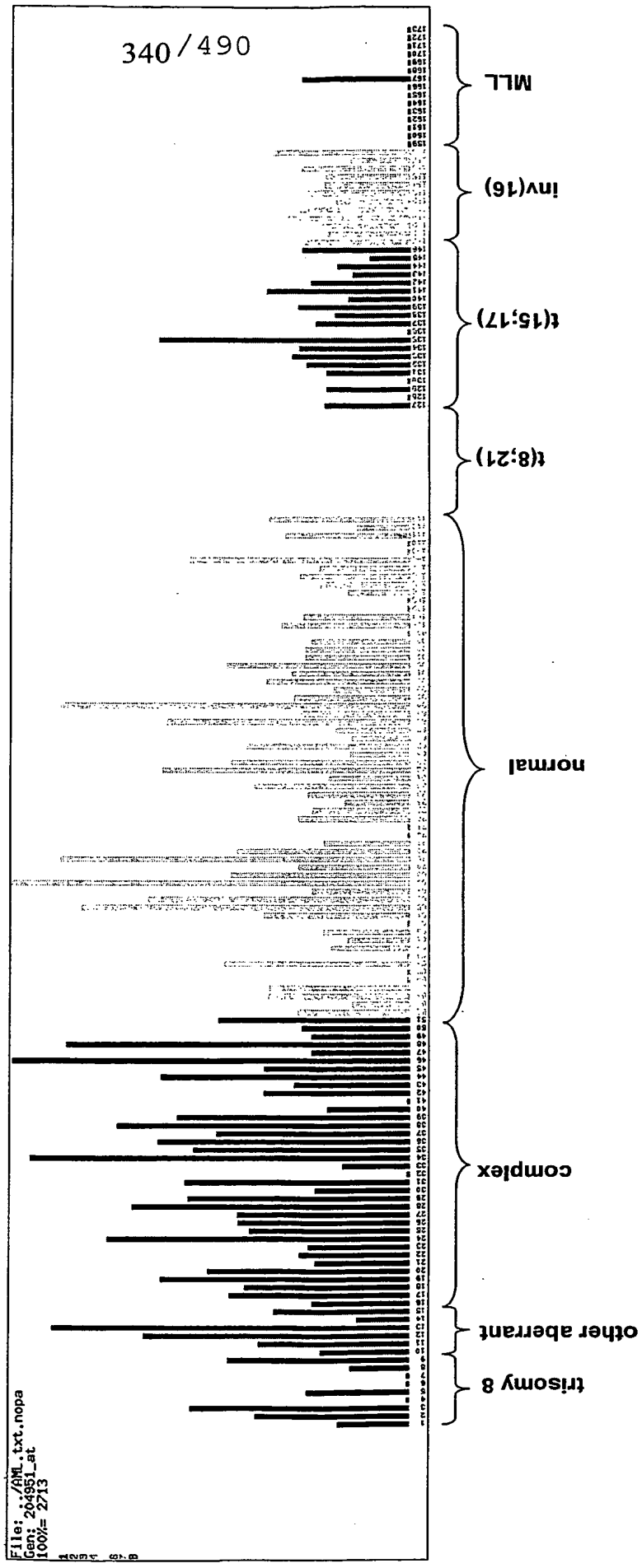

204951_at, ARHH, complex vs. MLL
File: ../AML.txt.nopa
Gen: 204951_at
100%= 2713
trisomy 8
other aberrant
complex
normal
t(8;21)
t(15;17)
inv(16)
MLL

Figure 314

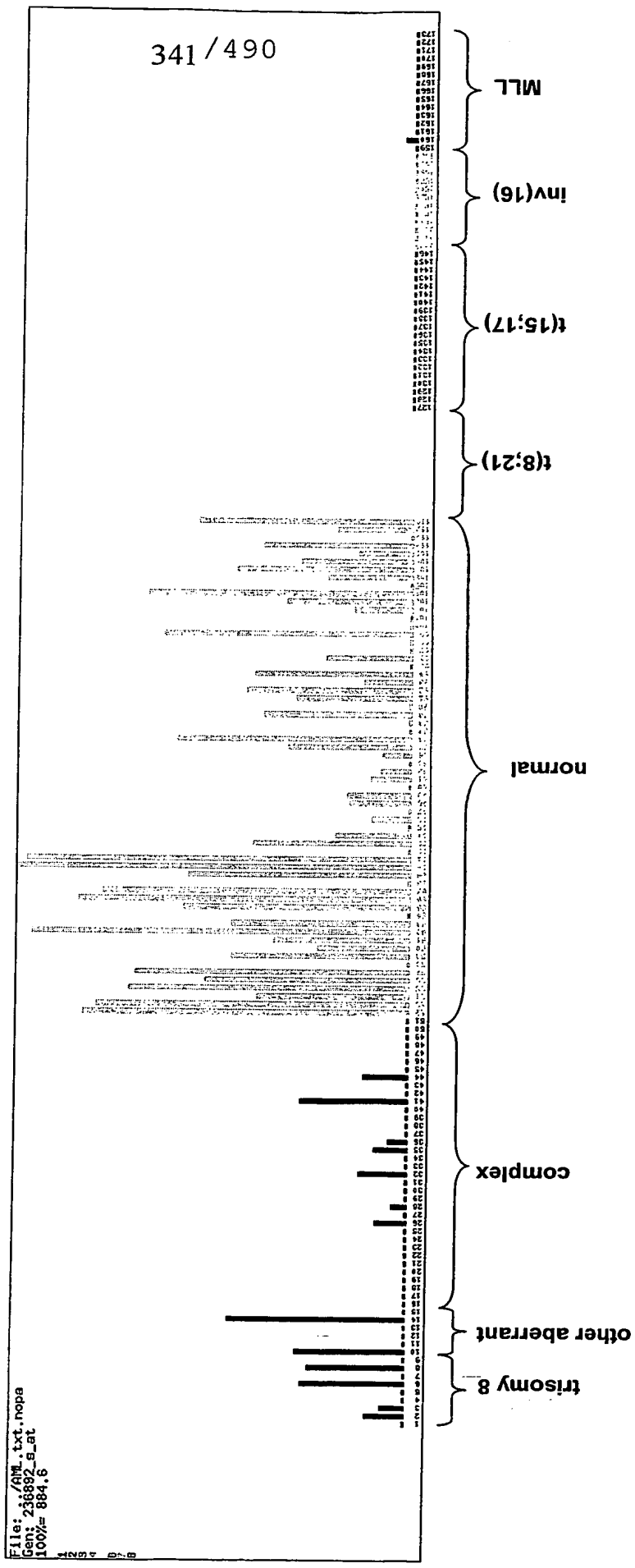

236892_s_at, HOXB6, normal vs. all other AML
File: ../AML.txt.nopa
Gen: 236892_s_at
100%= 884.6
trisomy 8
other aberrant
complex
normal
t(8;21)
t(15;17)
inv(16)
MLL

Figure 315

228904_at, normal vs. all other AML

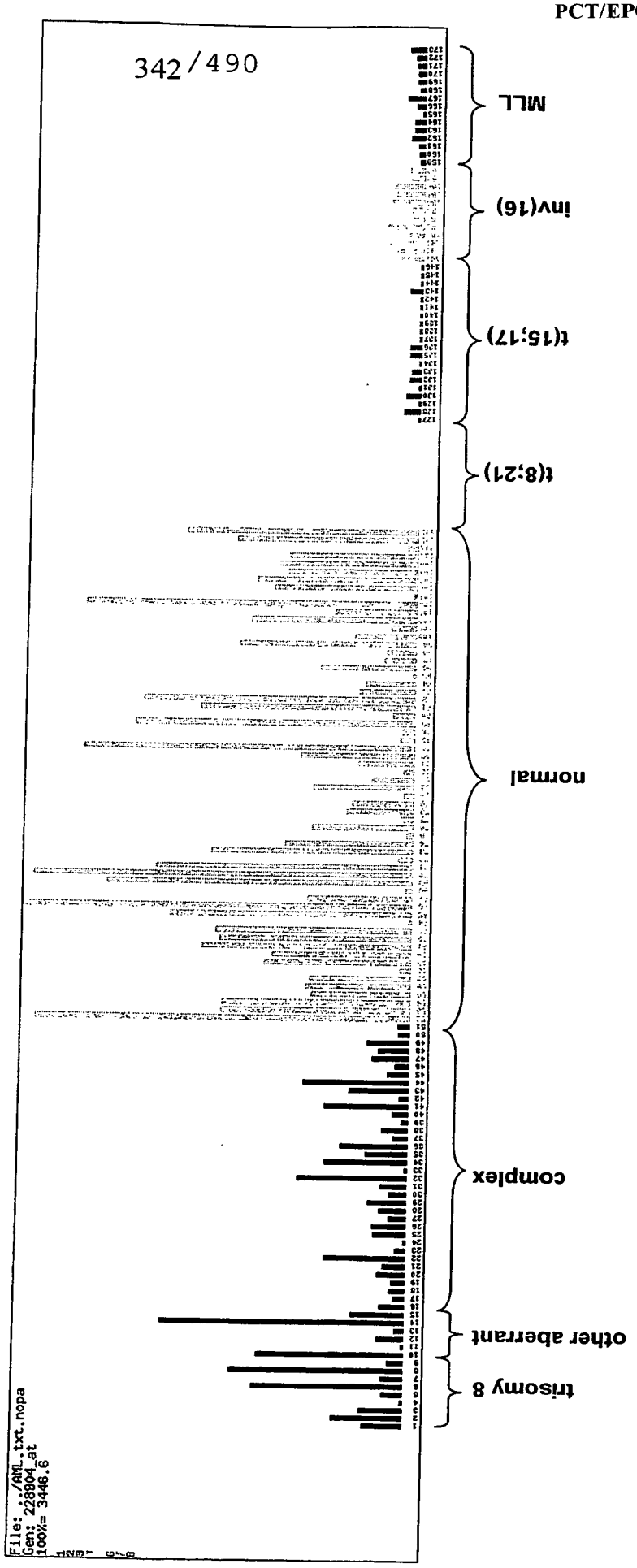


Figure 316

200679_x_at, HMG1, normal vs. all other AML

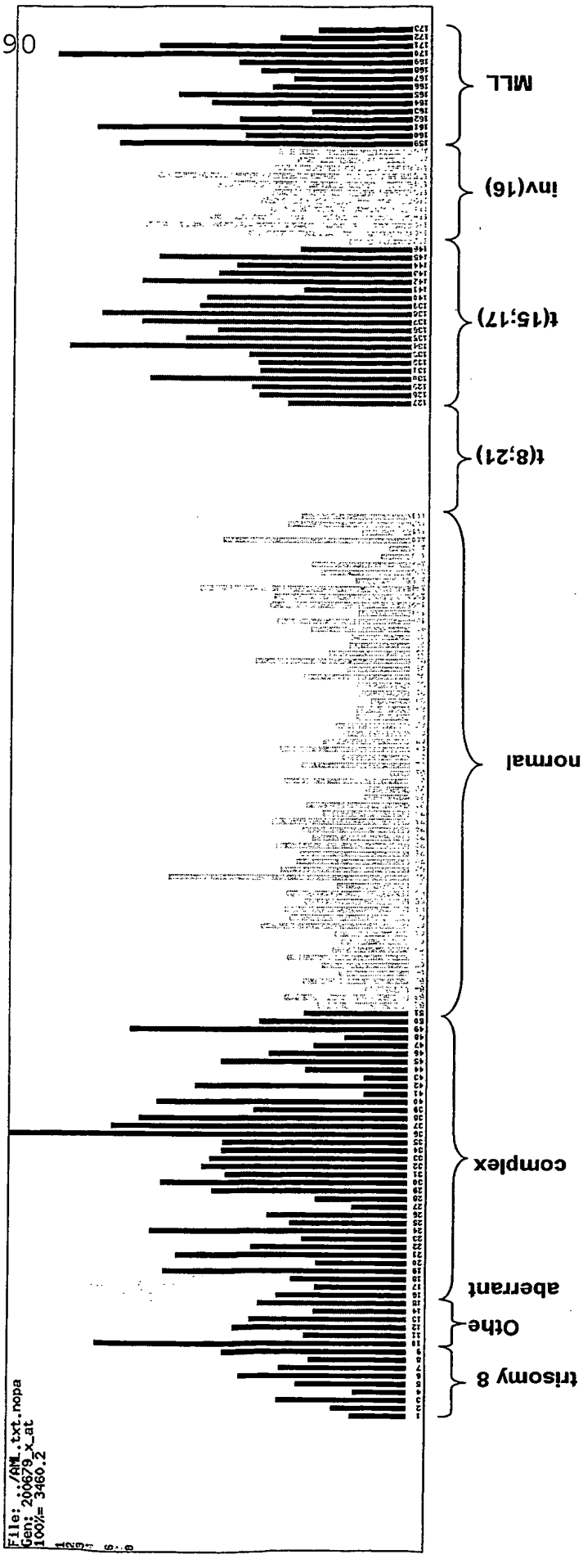


Figure 317

225326_at, KIAA1311, normal vs. all other AML

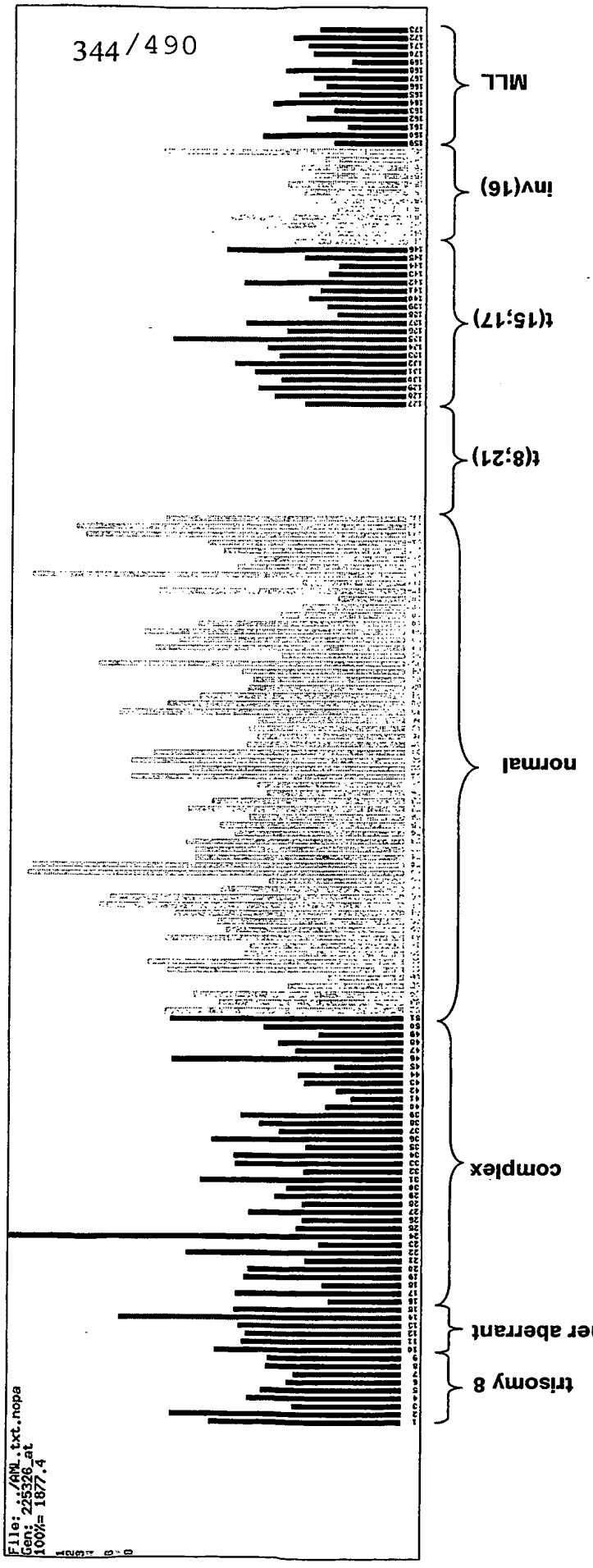


Figure 318

228827_at, normal vs. t(8;21)

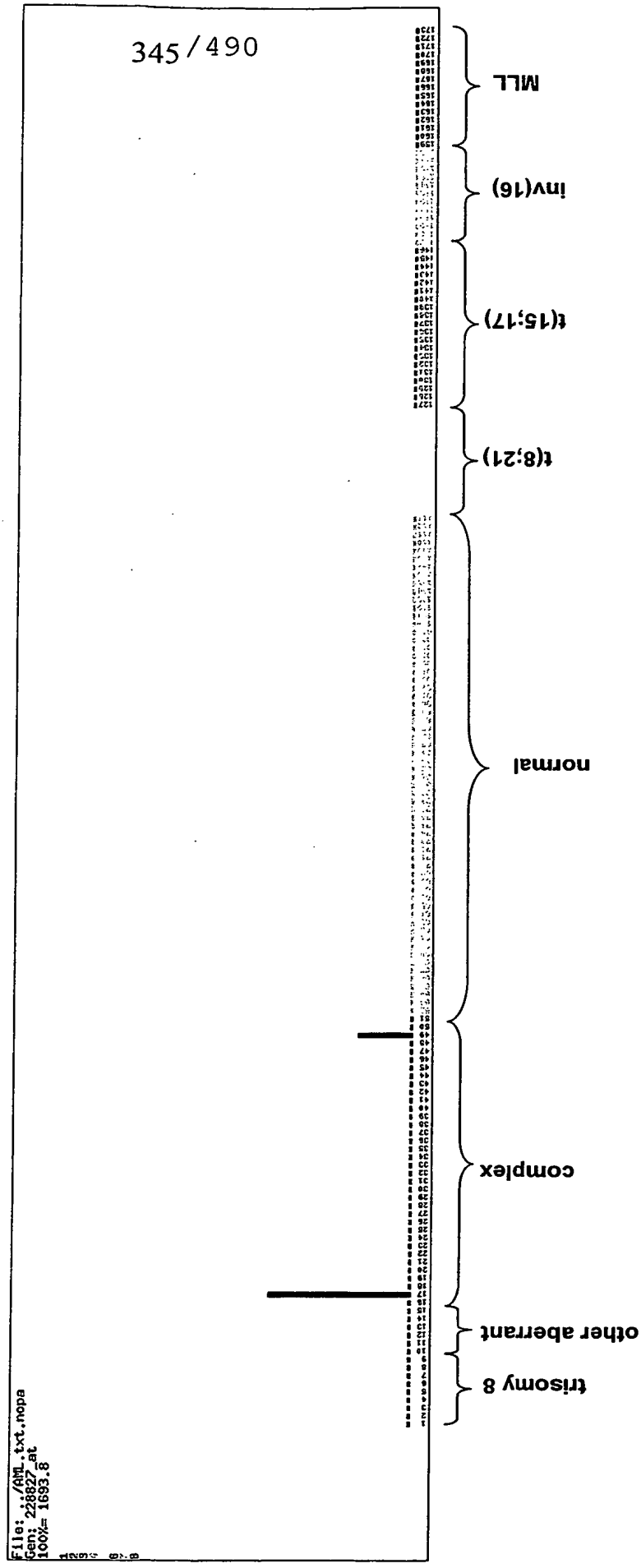


Figure 319

212953_x_at, CALR, normal vs. t(15;17)

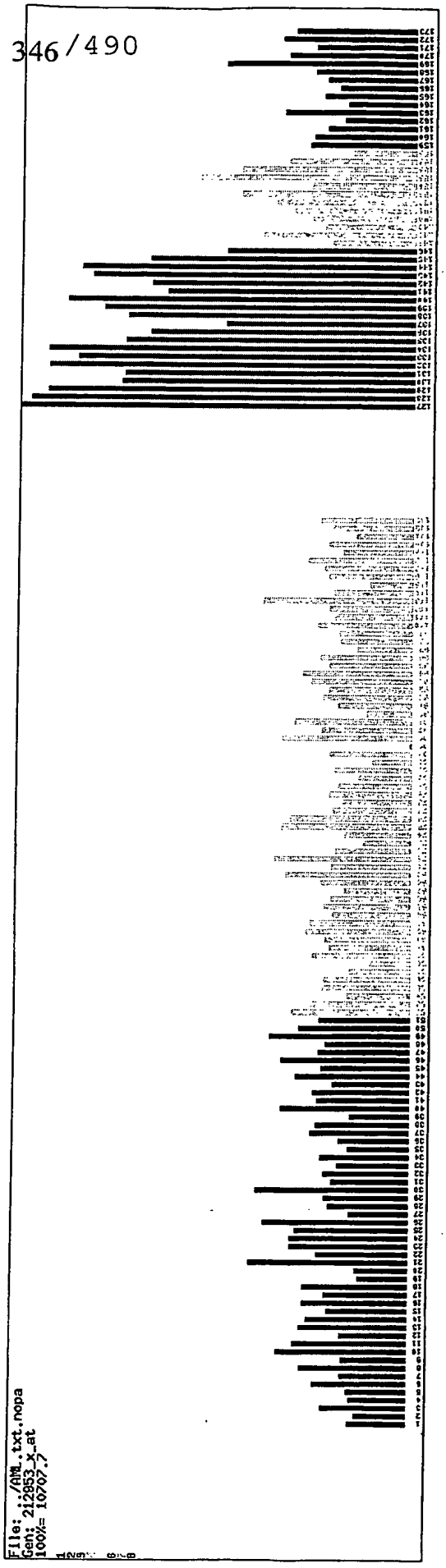


Figure 320

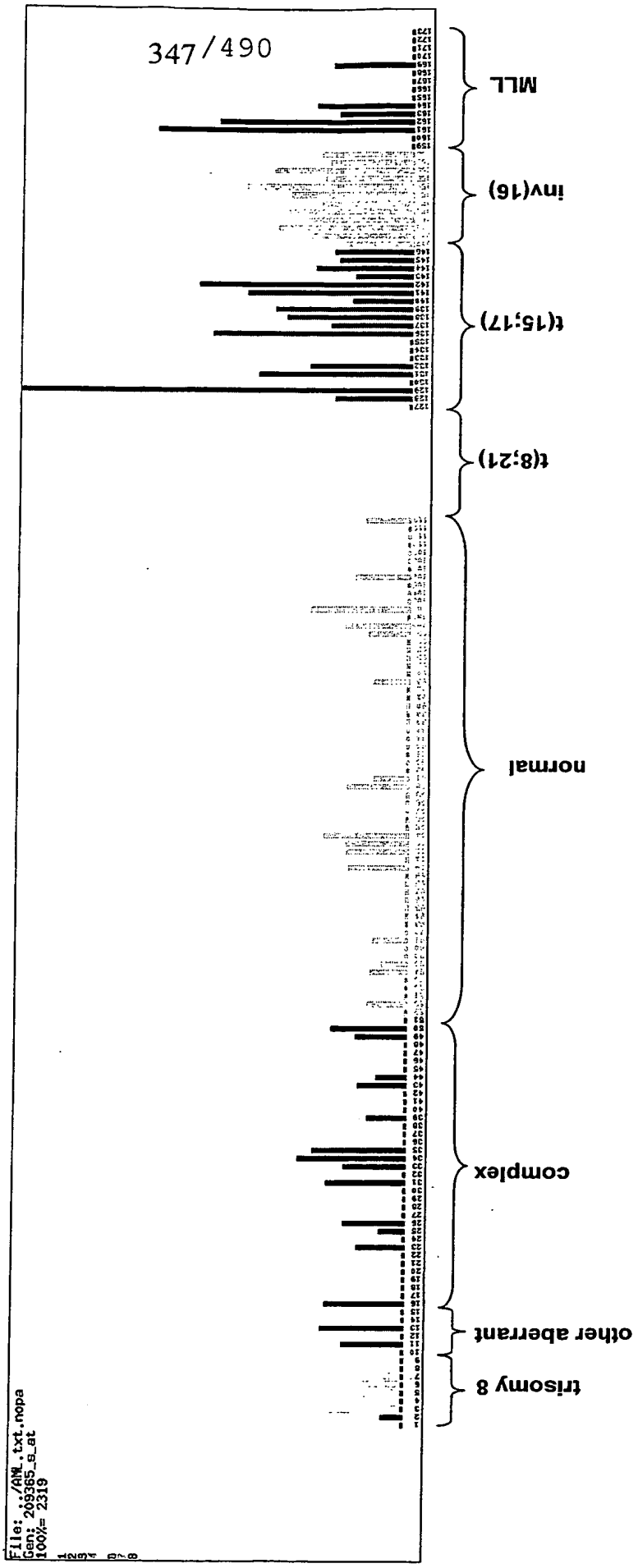

209365_s_at, ECM1, normal vs. inv(16)
File: ../AML.txt.nopa
Gen: 209365_s_at
100%= 2319
trisomy 8
other aberrant
complex
normal
t(8;21)
t(15;17)
inv(16)
MLL

Figure 321

231310_at, normal vs. inv(16)

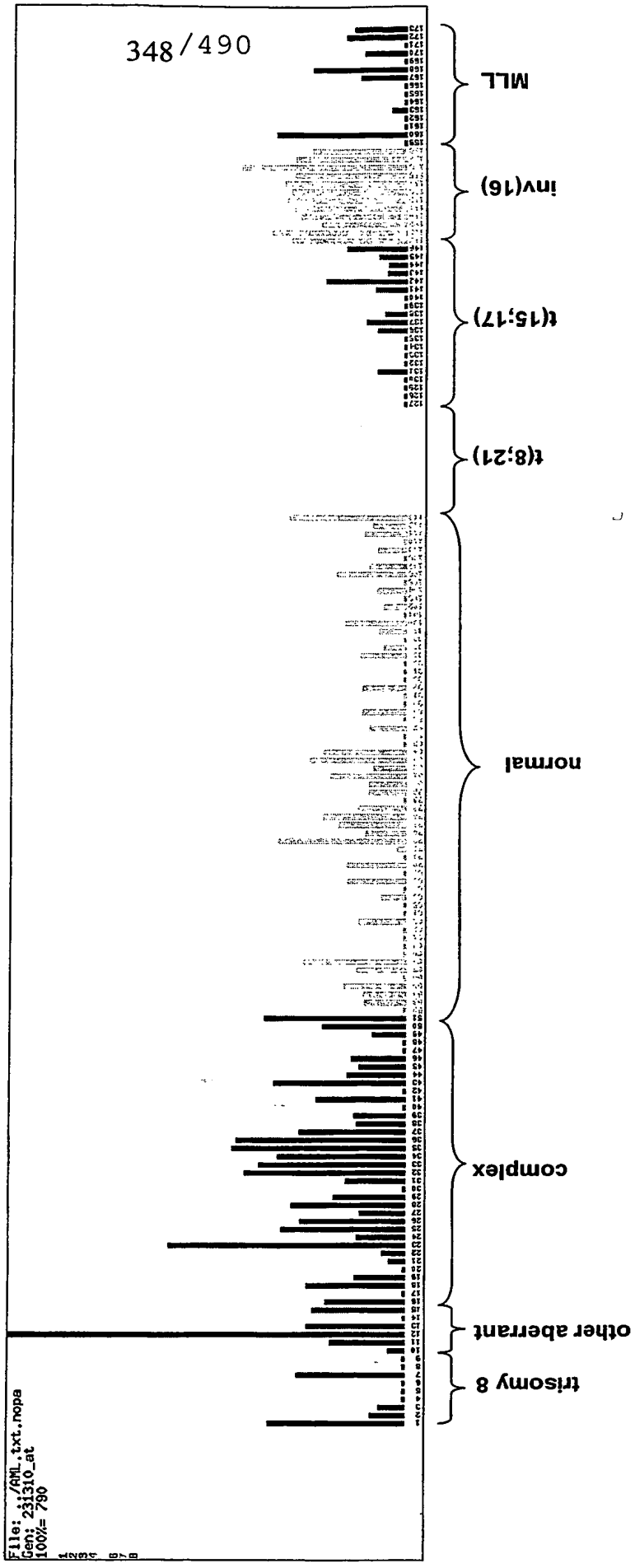


Figure 322

202370_s_at, CBFB, normal vs. inv(16)

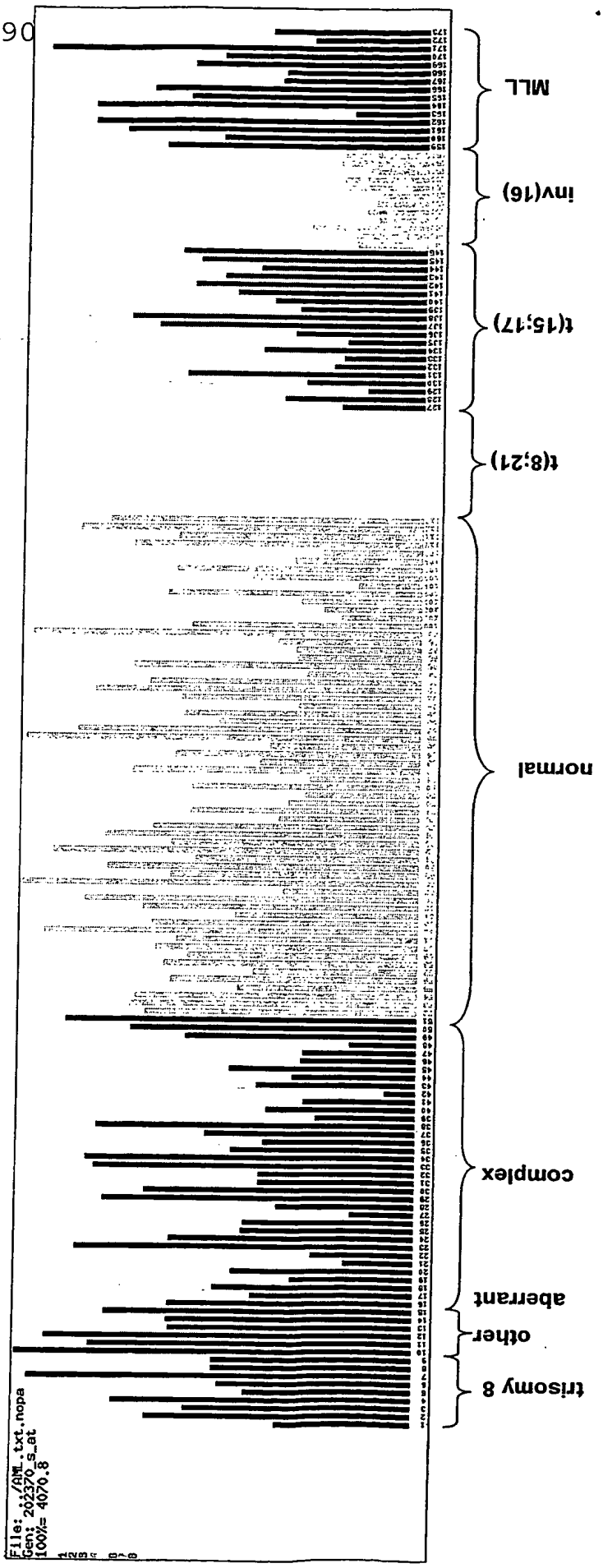


Figure 323

205453_at, HOXB2, normal vs. MLL

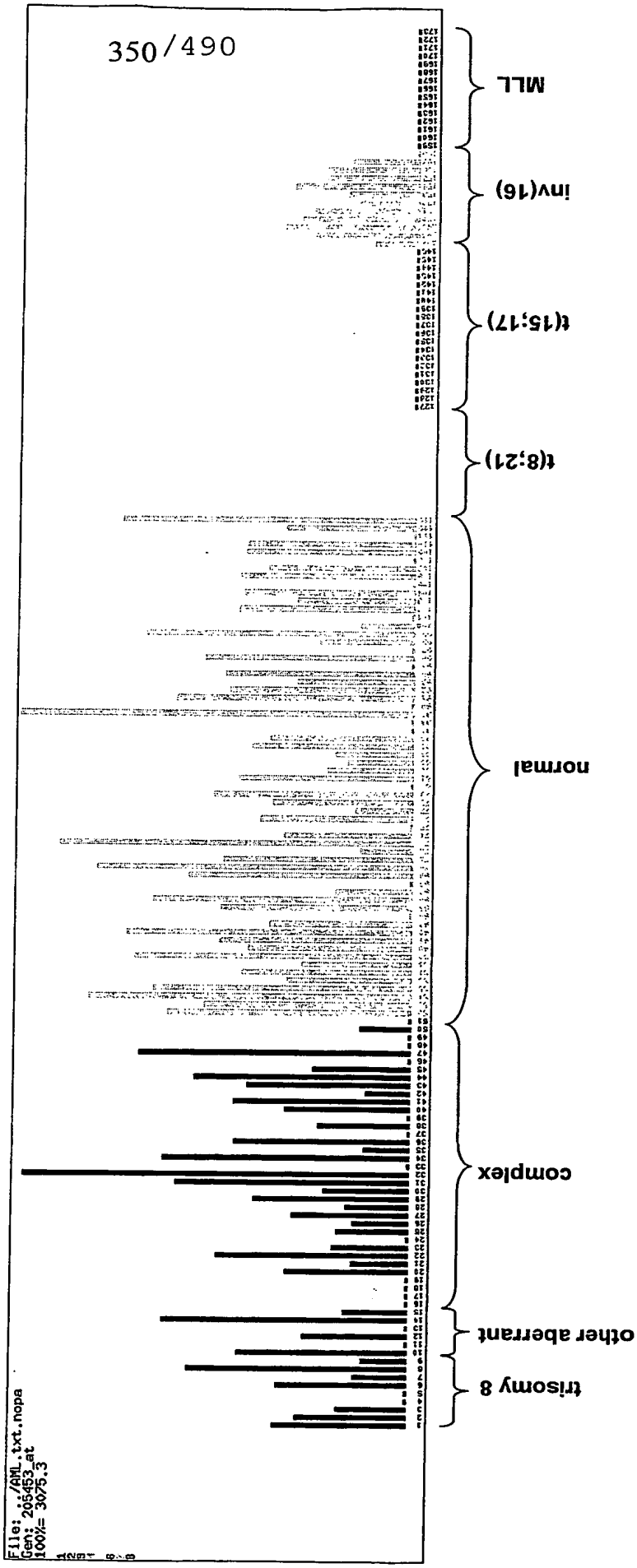


Figure 324

225406_at, TSG, normal vs. MLL

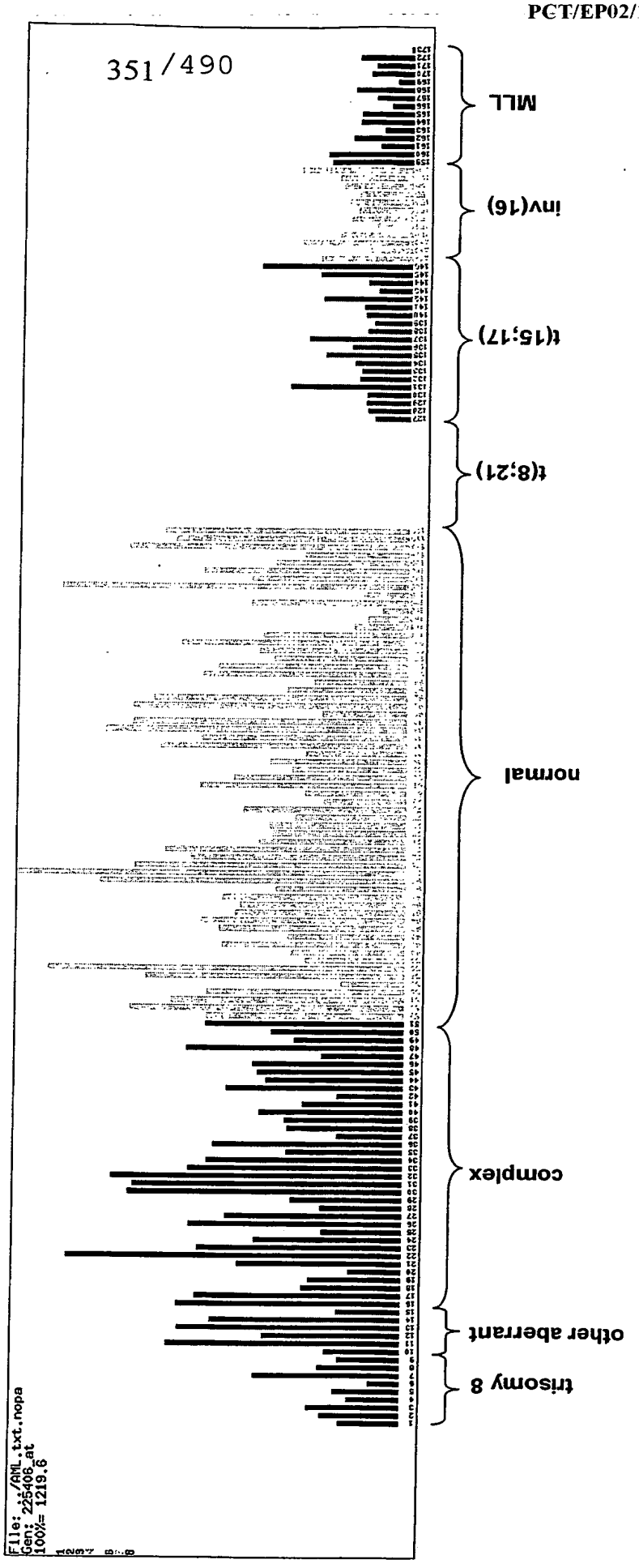


Figure 325

222464_at, C15orf15, normal vs. MLL

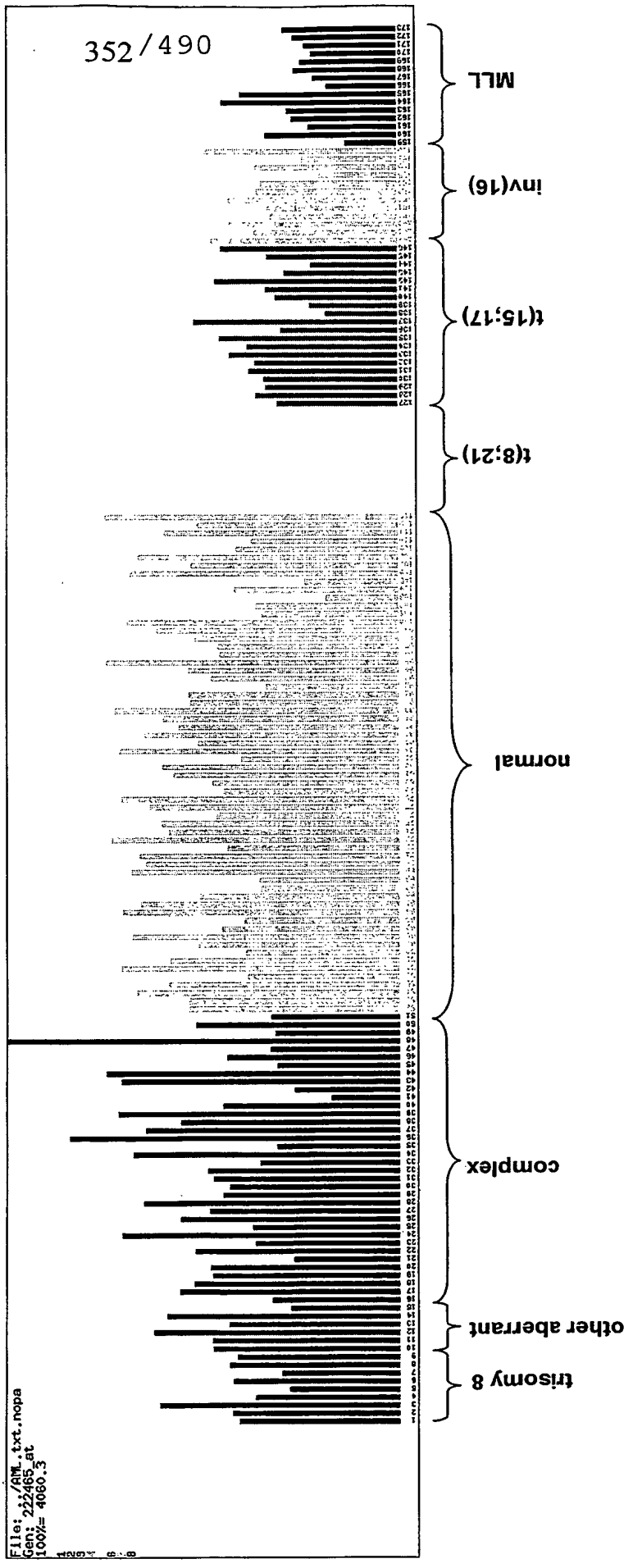


Figure 326

205529_s_at, CBFA2T1, t(8;21) vs. all other AML

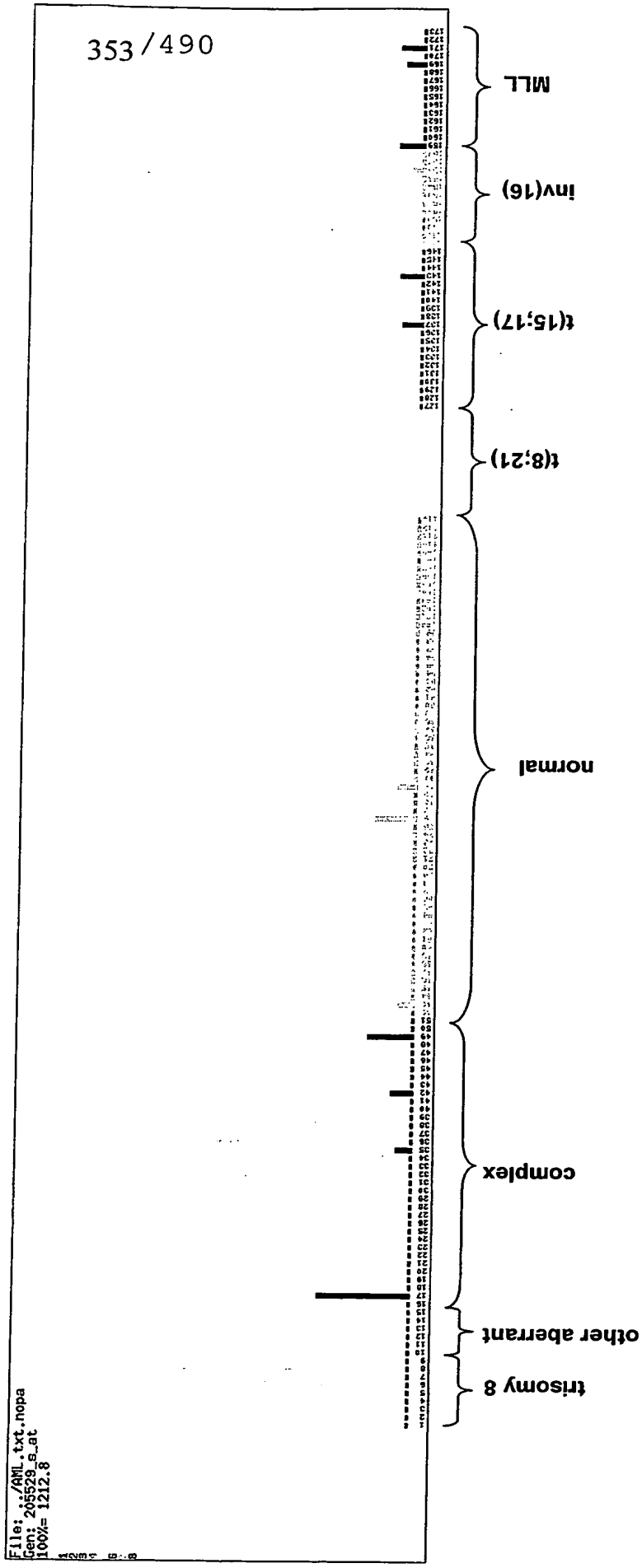


Figure 327

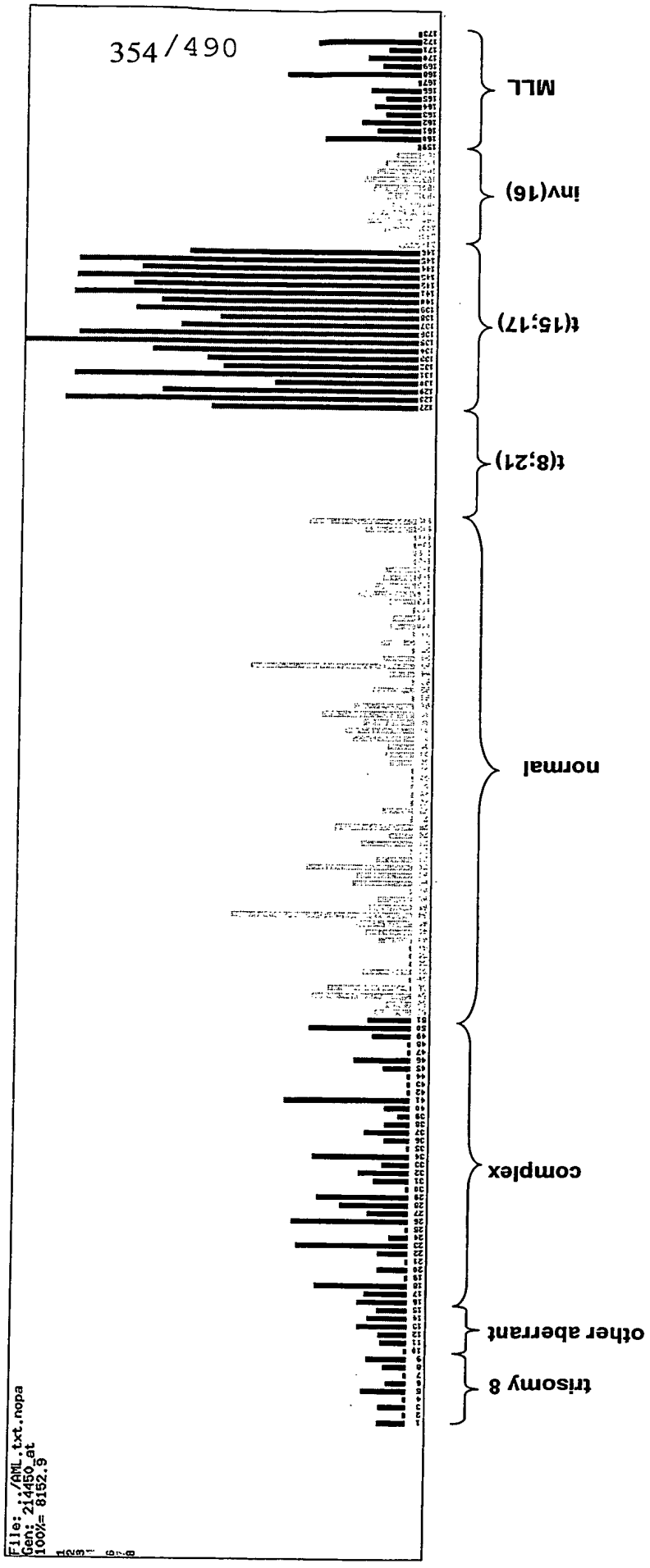

214450_at, CTSW, t(8;21) vs. t(15;17)
File: ../AML.txt.nopa
Gen: 214450_at
100%= 8152.9
MLL
inv(16)
t(15;17)
t(8;21)
normal
complex
other aberrant
trisomy 8

Figure 328

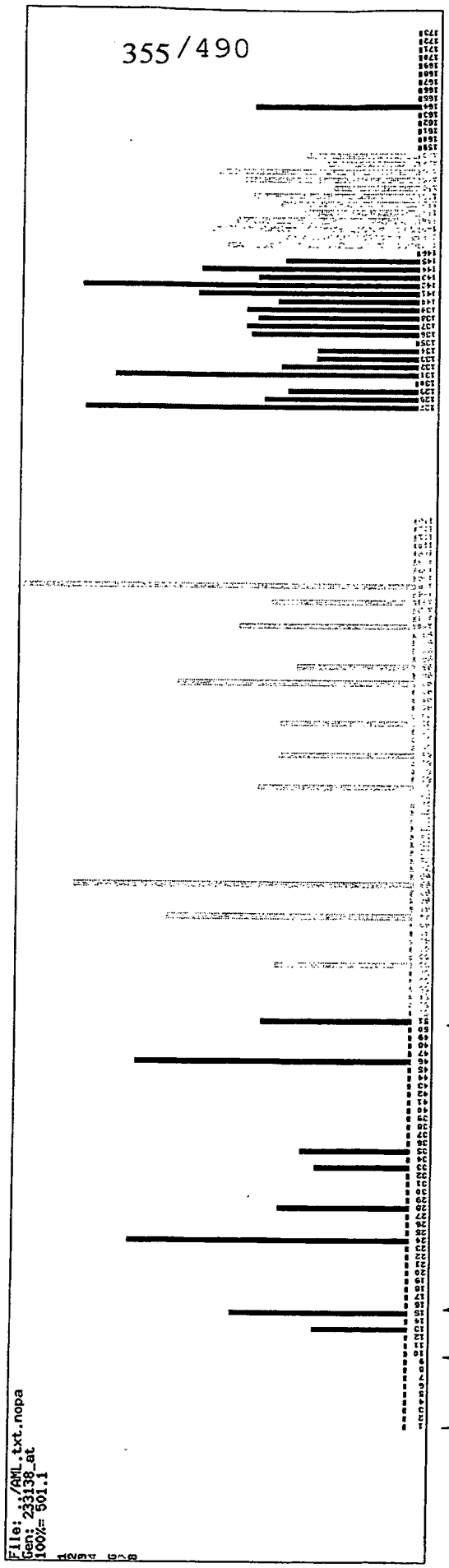

233138_at, t(8;21) vs. inv(16)
File: .../AML_txt.nopa
Gen: 233138_at
100%= 501.1
trisomy 8
other aberrant
complex
normal
t(8;21)
t(15;17)
inv(16)
MLL

Figure 329

201105_at, LGALS1, t(8;21) vs. MLL

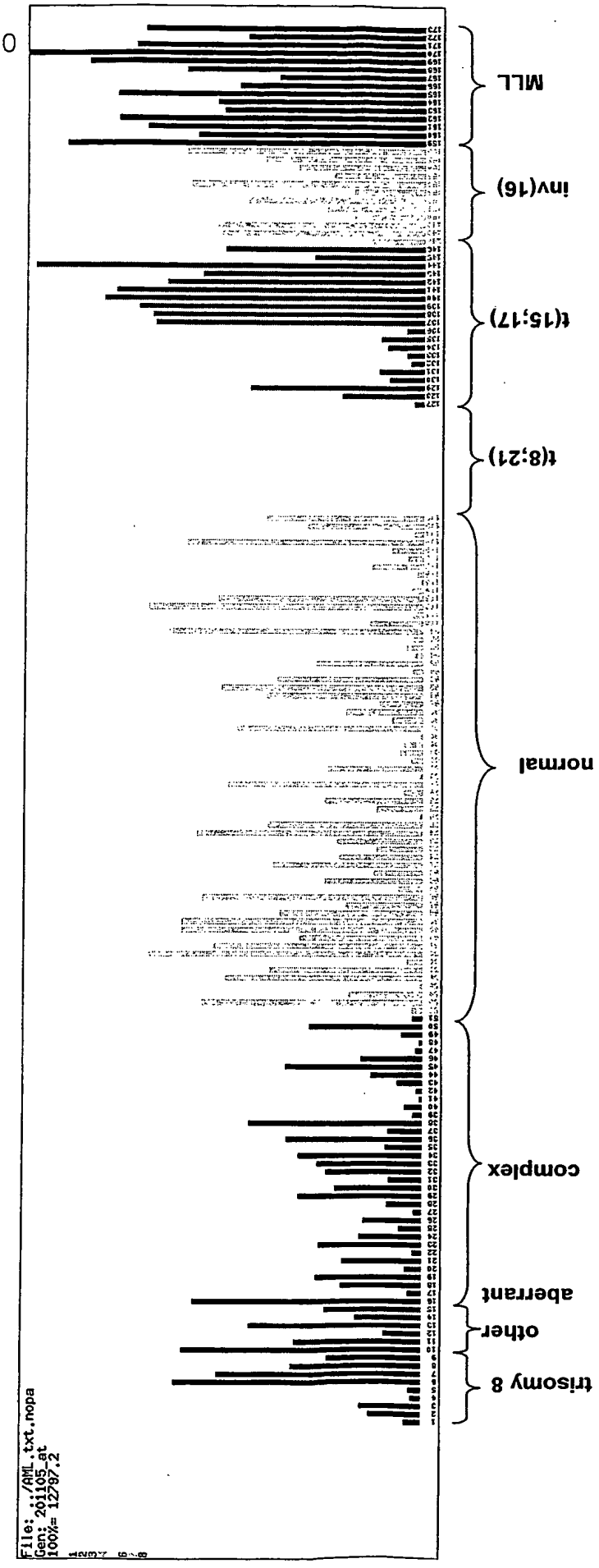


Figure 330

203948_s_at, MPO, t(15;17) vs. all other AML

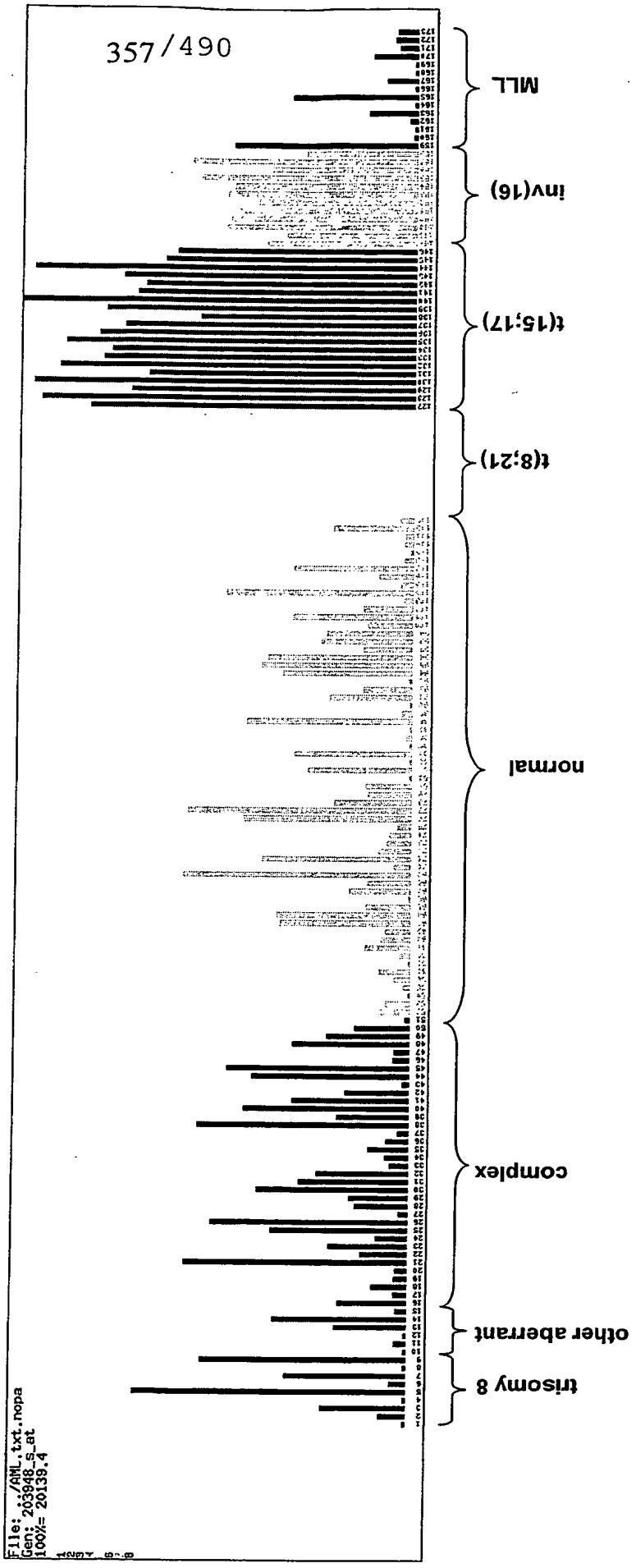


Figure 331

204661_at, CDW52, t(15;17) vs. inv(16)

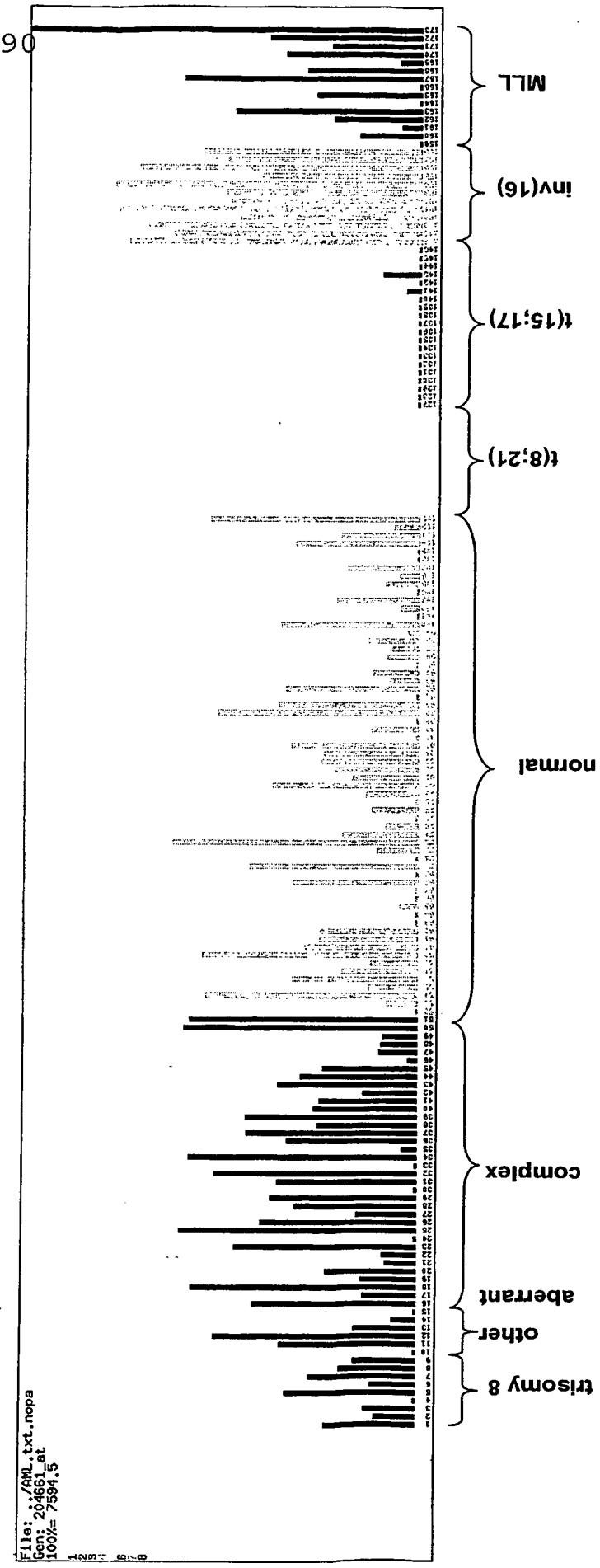


Figure 332

205624_at, CPA3, t(15;17) vs. MLL

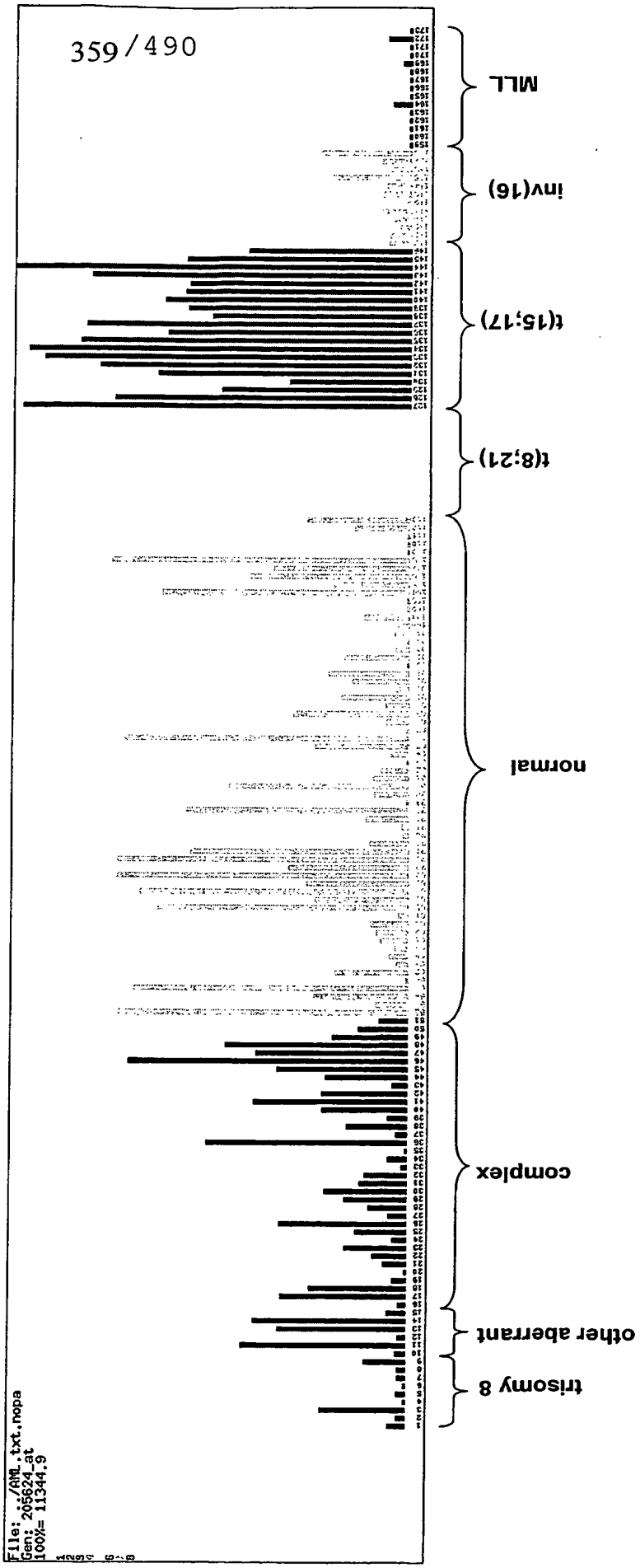


Figure 333

201497_x_at, MYH11, inv(16) vs. all other AML

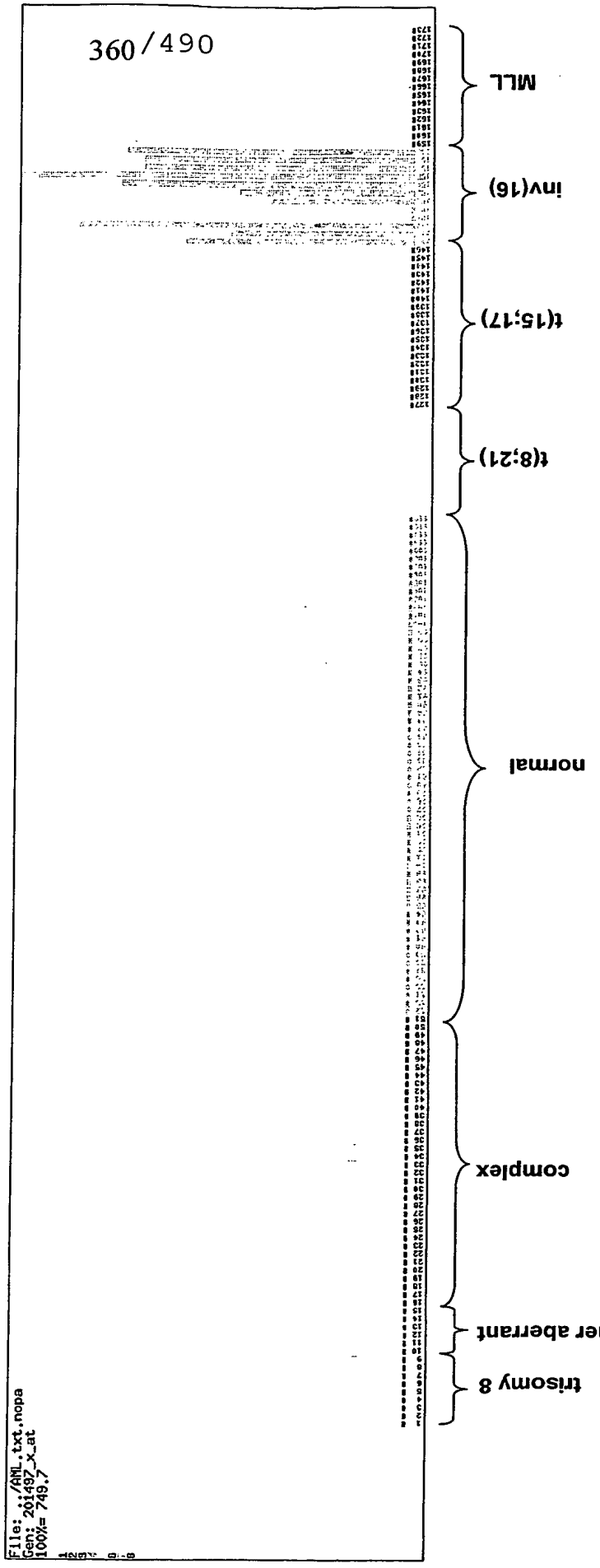
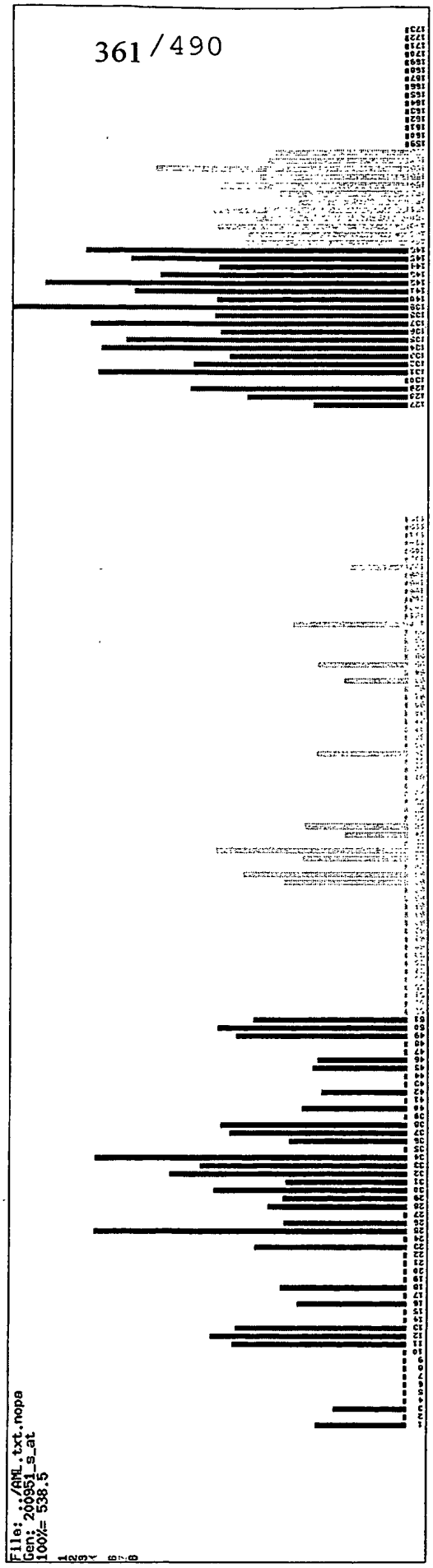


Figure 334

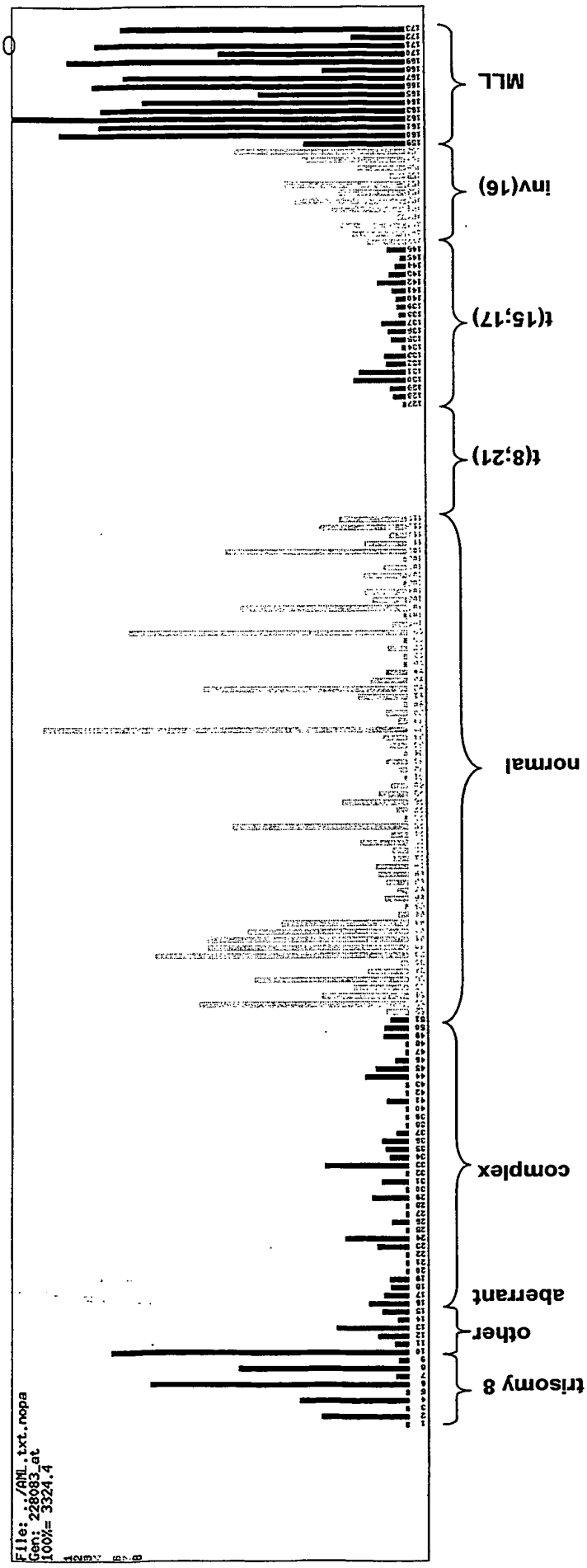


200951_s_at, CCND2, inv(16) vs. MLL

Figure 335

228083_at, MLL vs. all other AML

Figure 336



635_s_at, PPP2R5B, other low

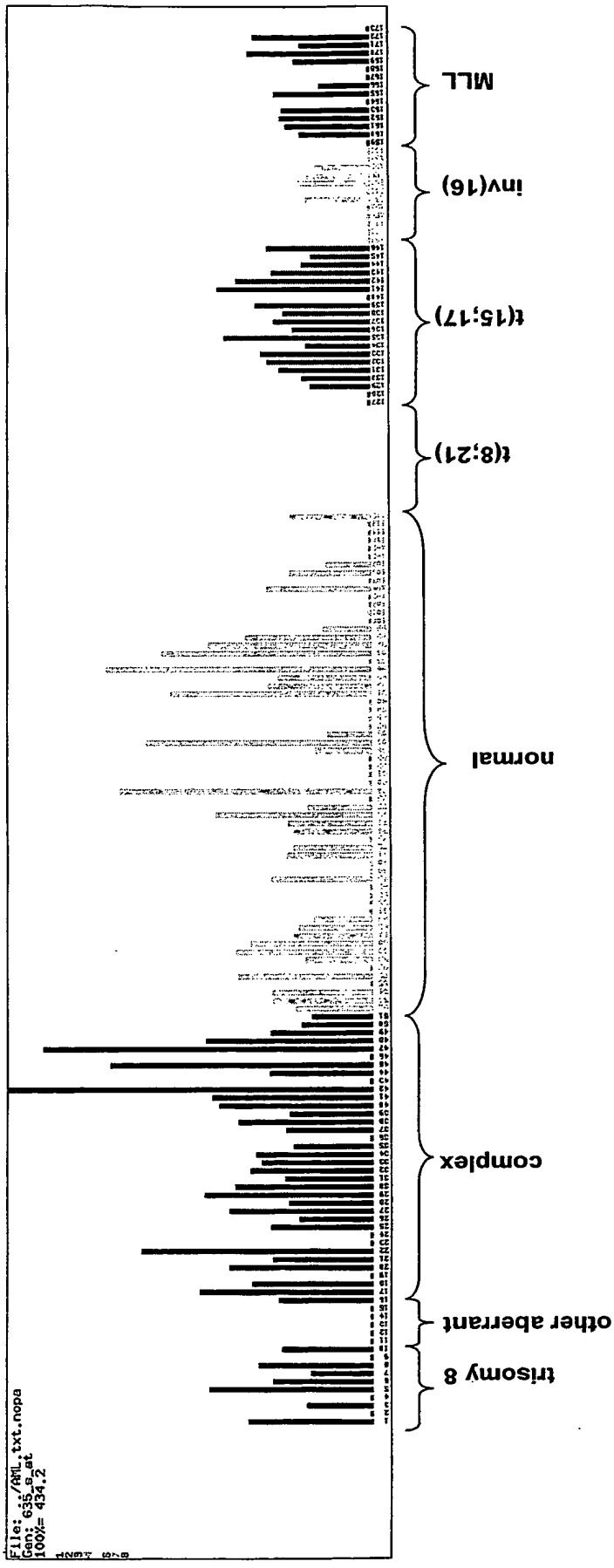


Figure 337

34210_at, CDW52, AML t(15;17) low

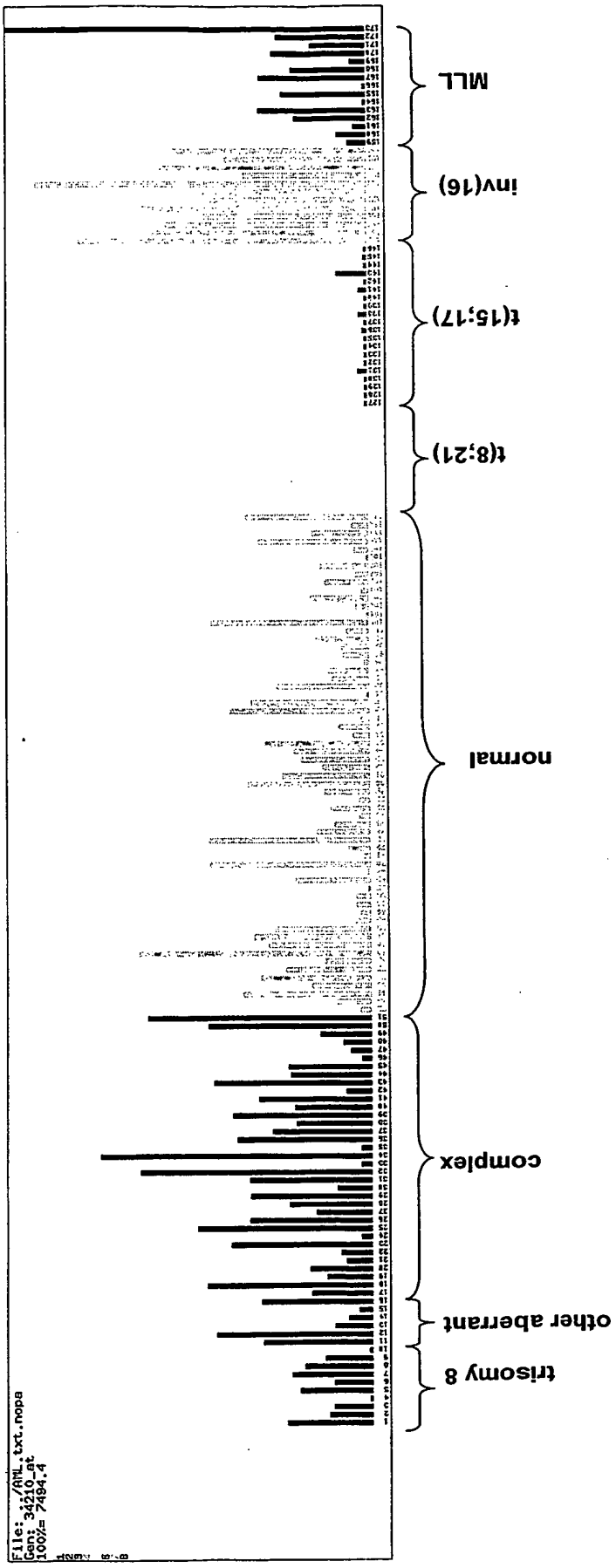


Figure 338

38487_at, FLJ12442, AML t(15;17) high

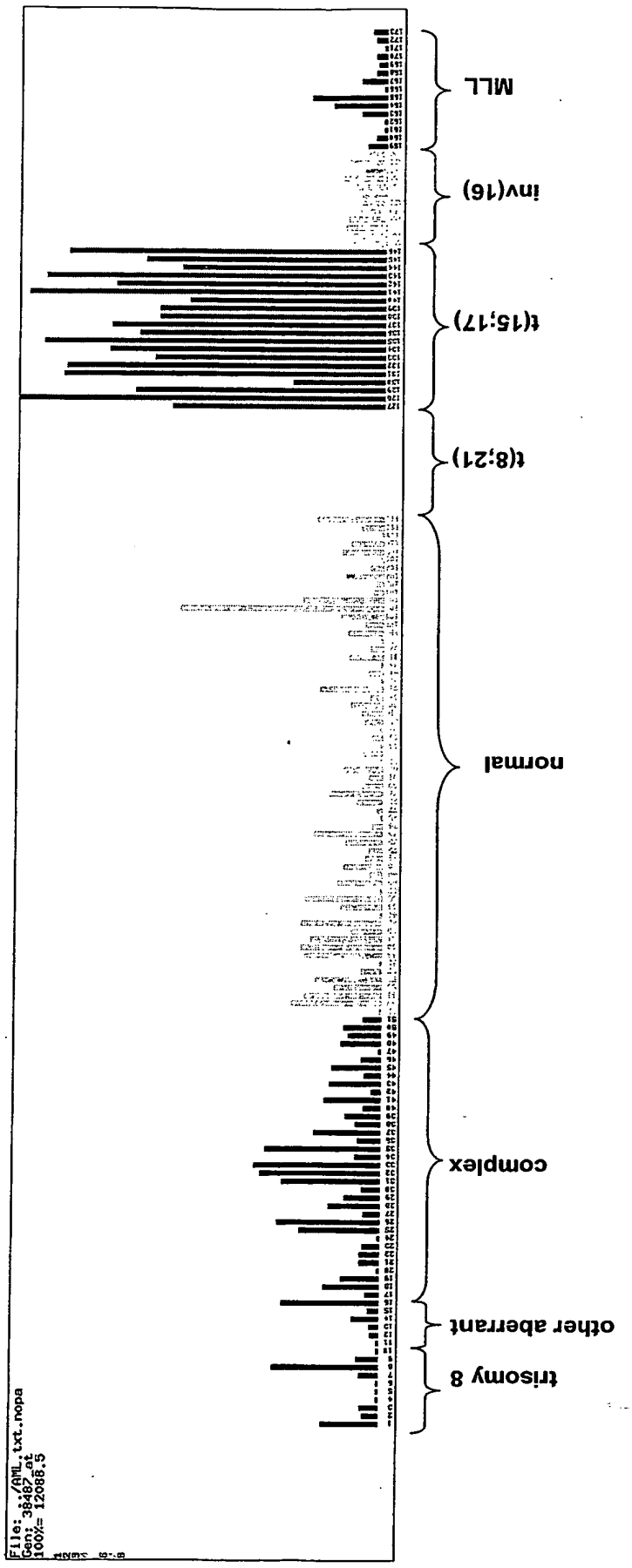


Figure 339

200675_at, CD81, AML inv(16) low

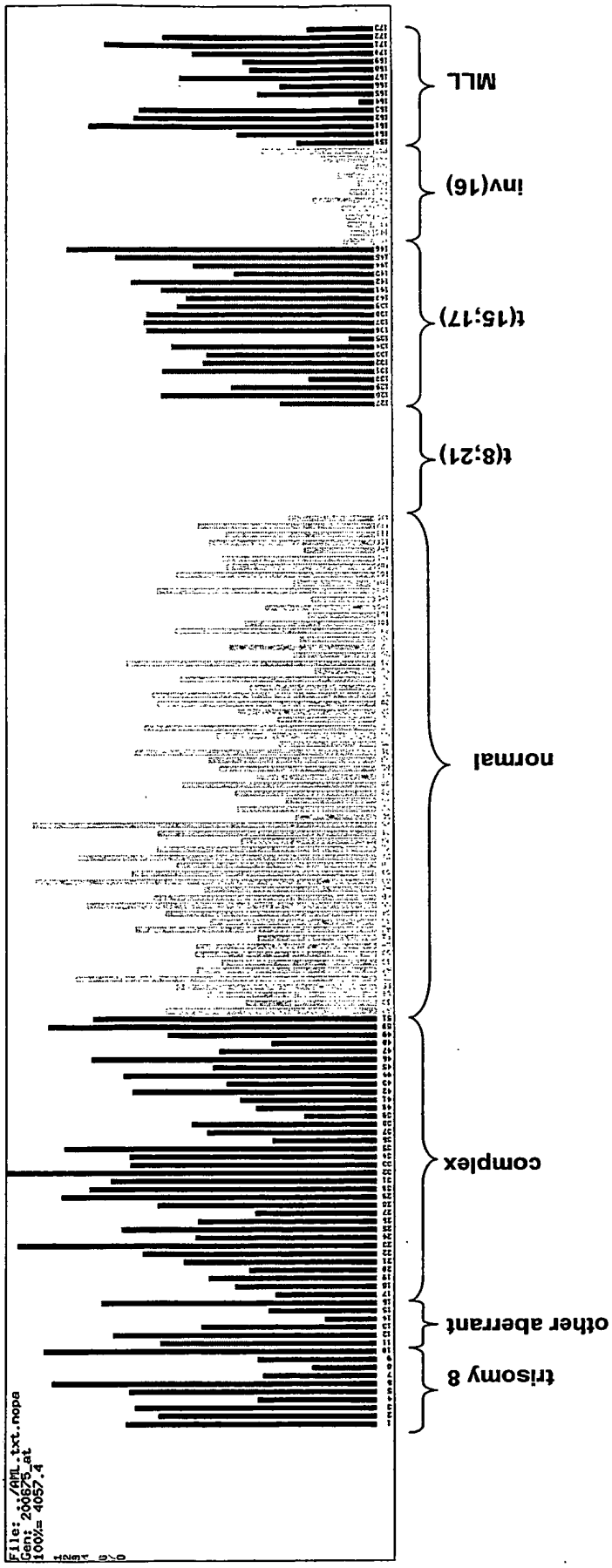


Figure 340

201137_s_at, HLA-DPB1, AML t(15;17) low

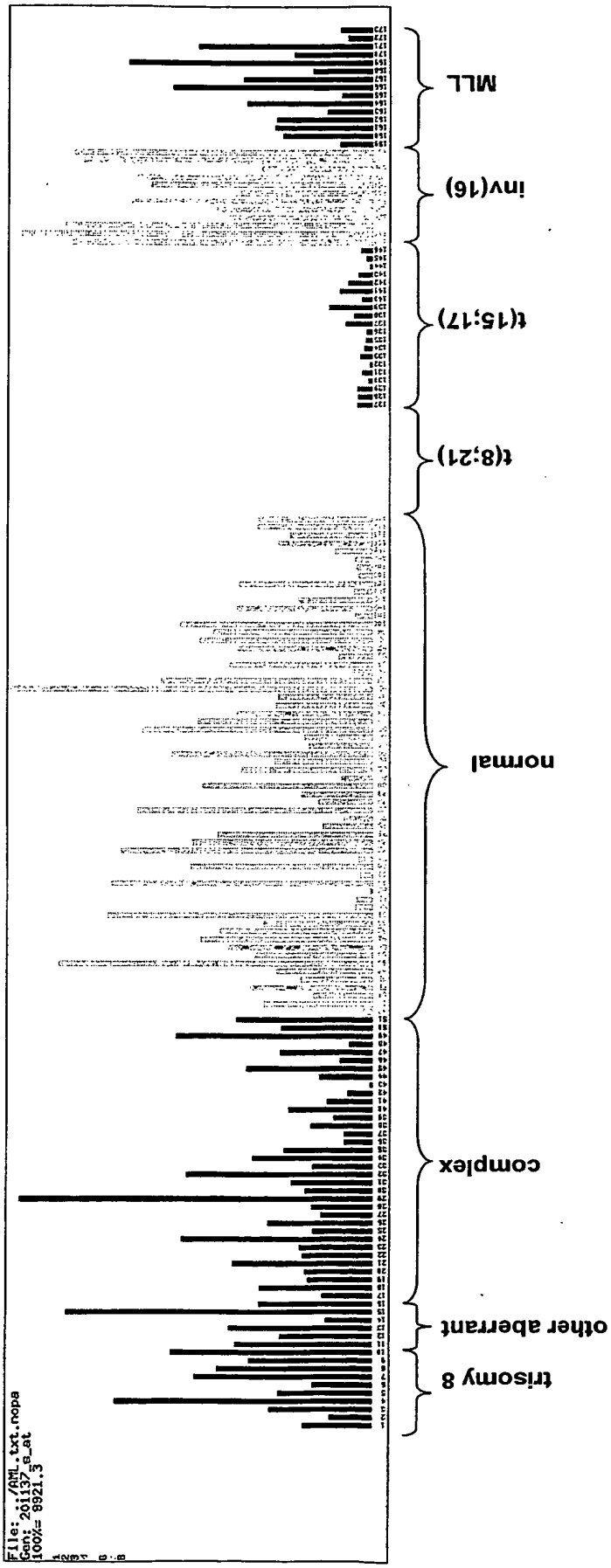


Figure 341

201425_at, ALDH2, AML t(8;21) low

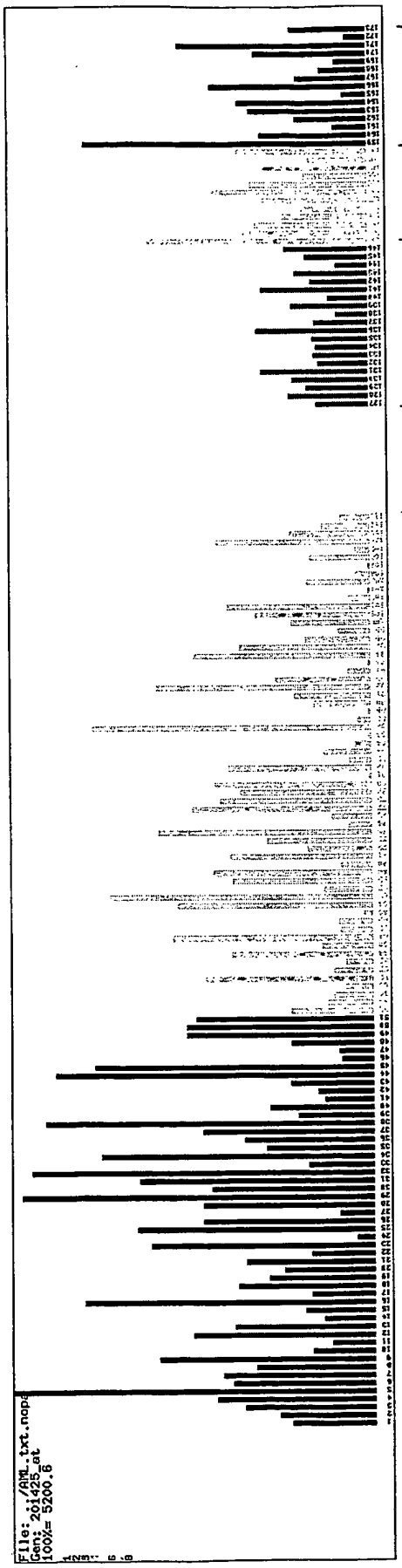


Figure 342

201496_x_at, MYH11, AML inv(16) high

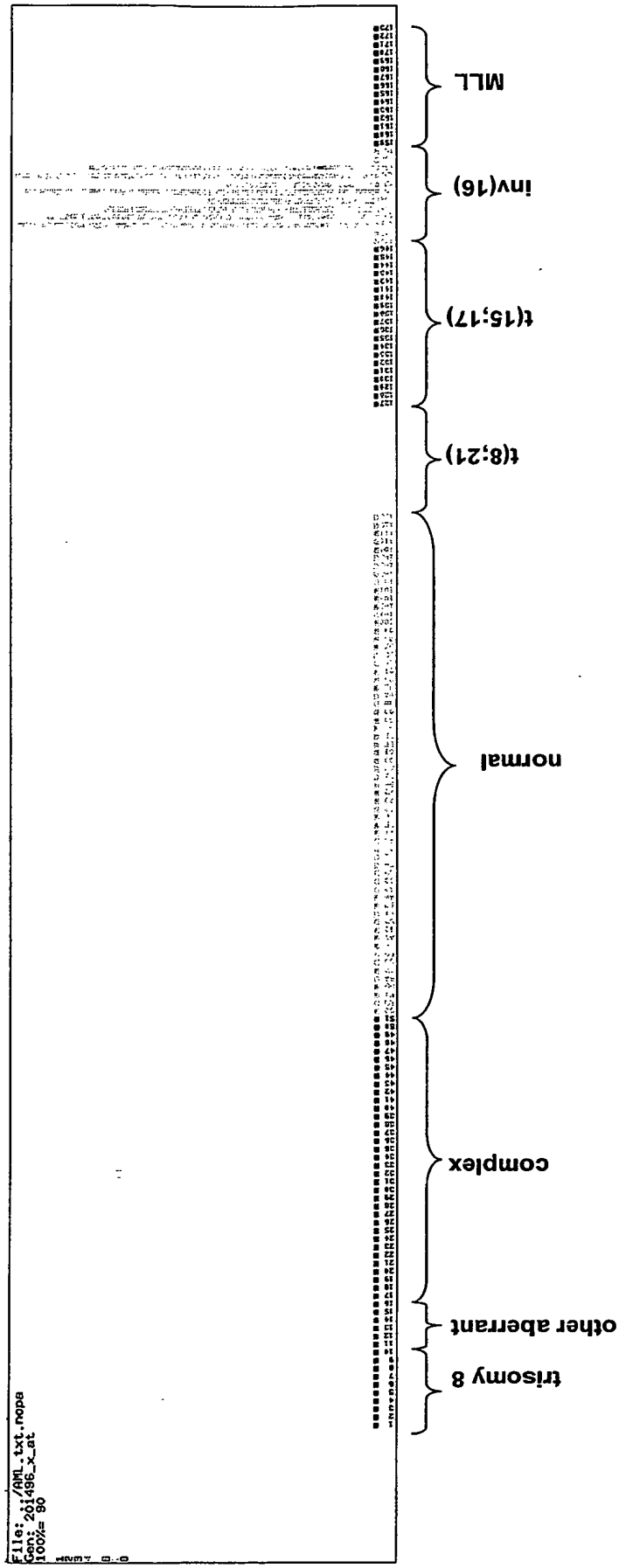


Figure 343

201497_x_at, MYH11, AML inv(16) high

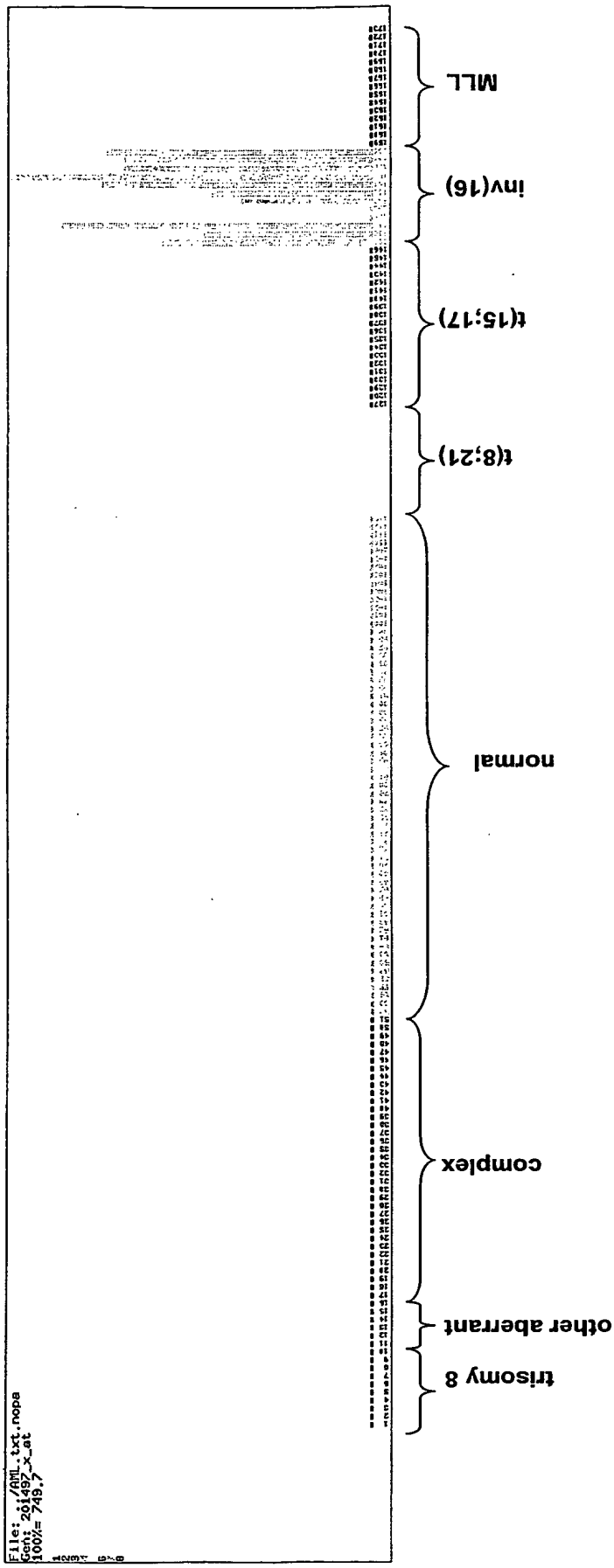


Figure 344

201596_x_at, KRT18, AML t(8;21) low

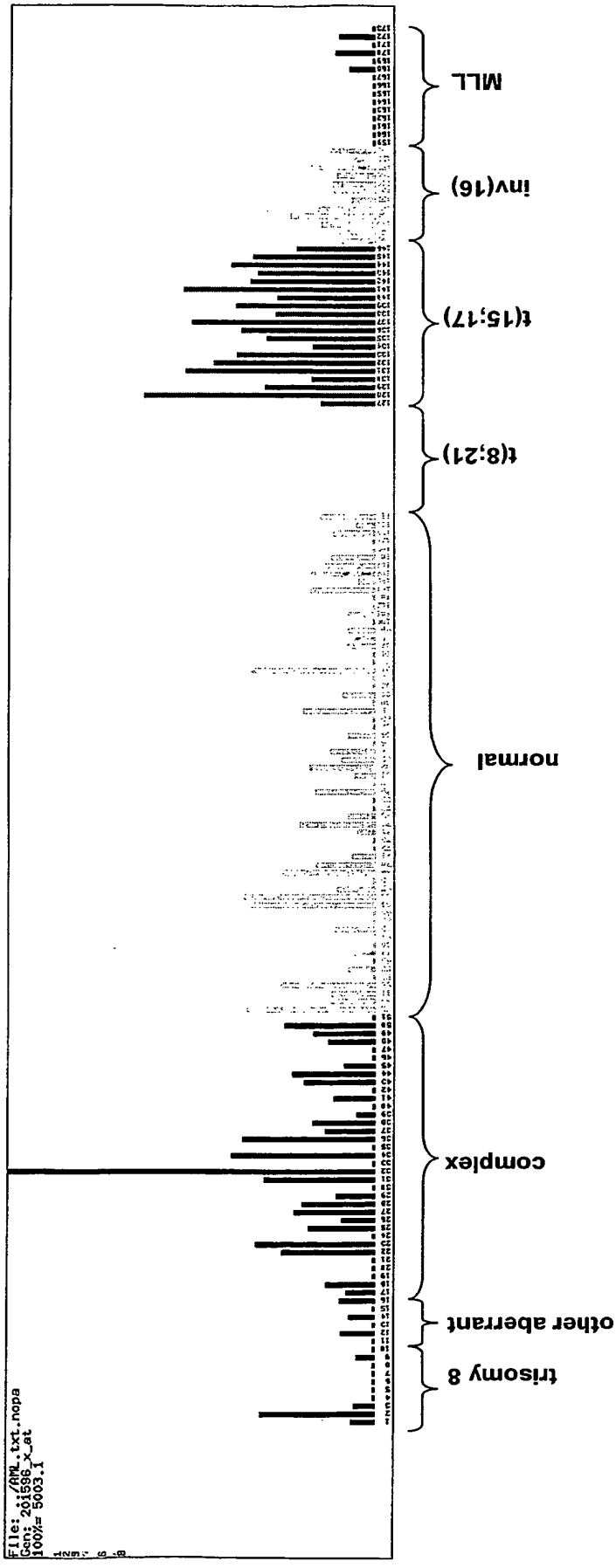


Figure 345

202085_at, TJP2, AML inv(16) low

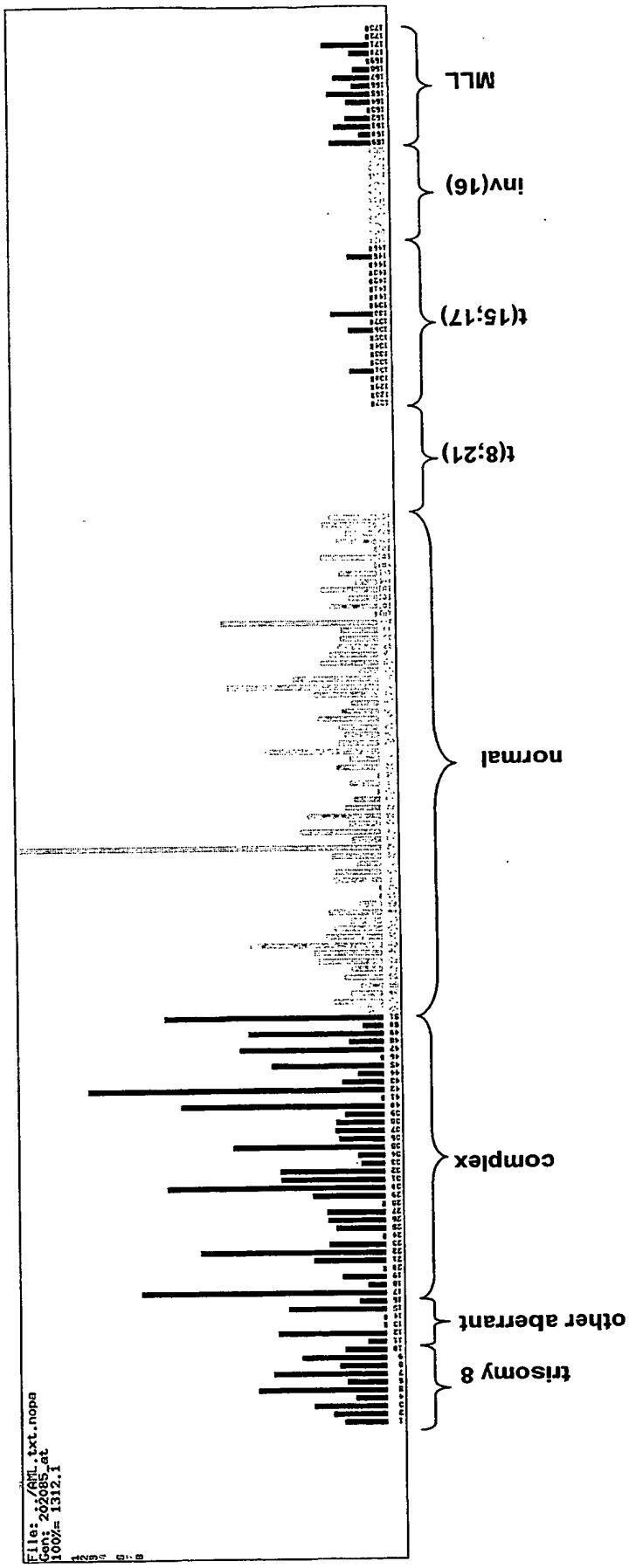


Figure 346

202619_s_at, PLOD2, AML MLL low

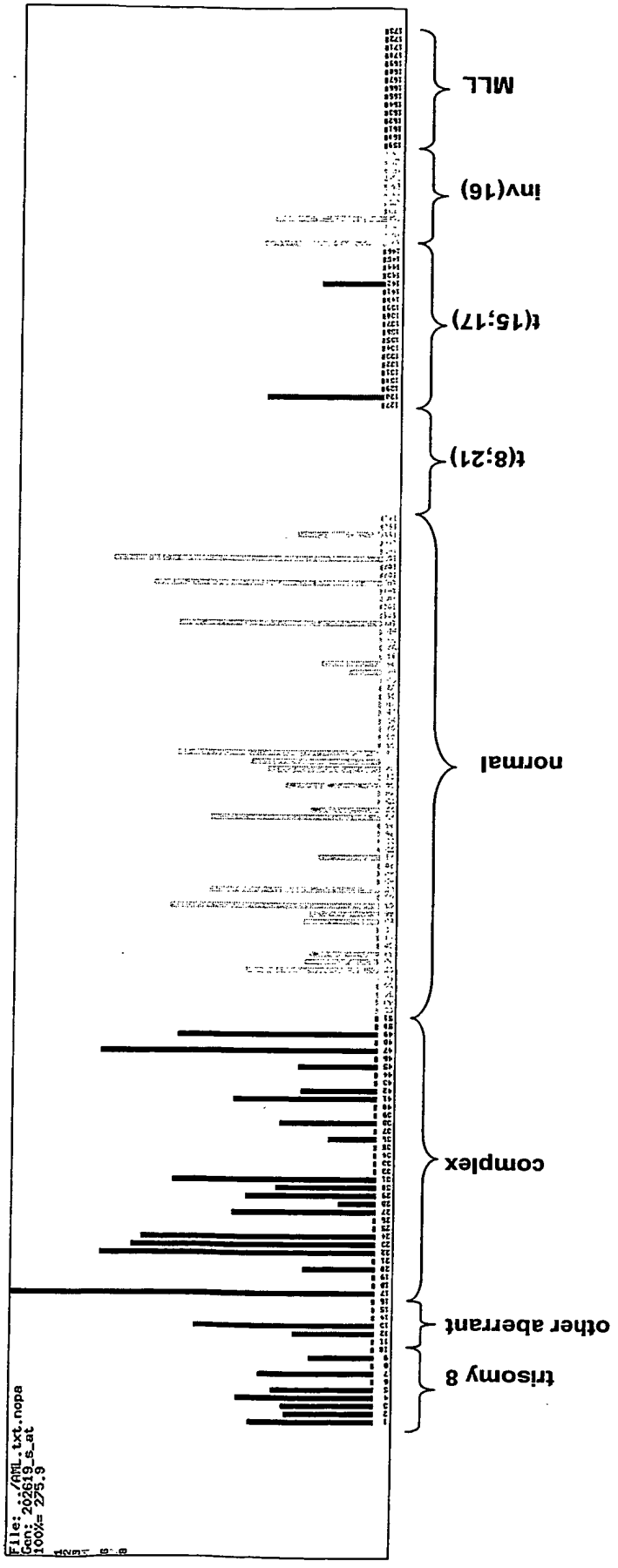


Figure 347

202718_at, IGFBP2, AML t(15;17) high

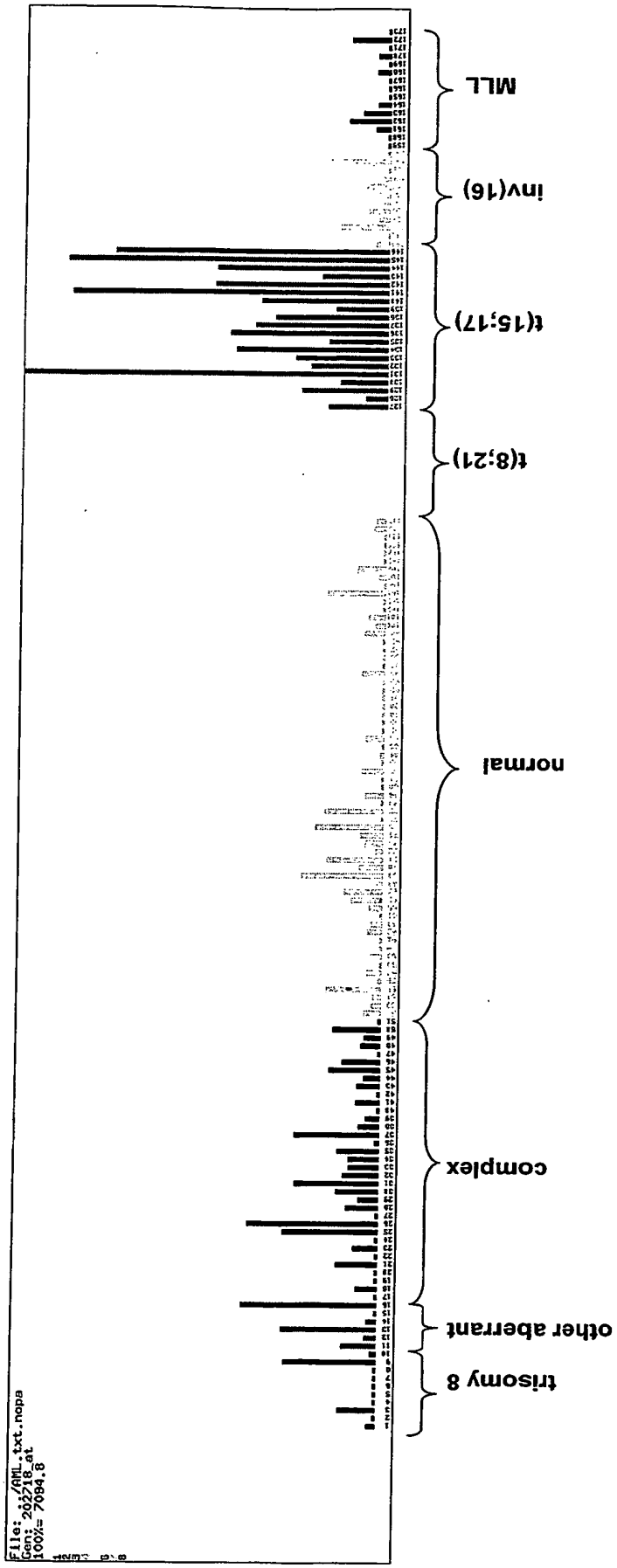


Figure 348

202746_at, AML MLL low

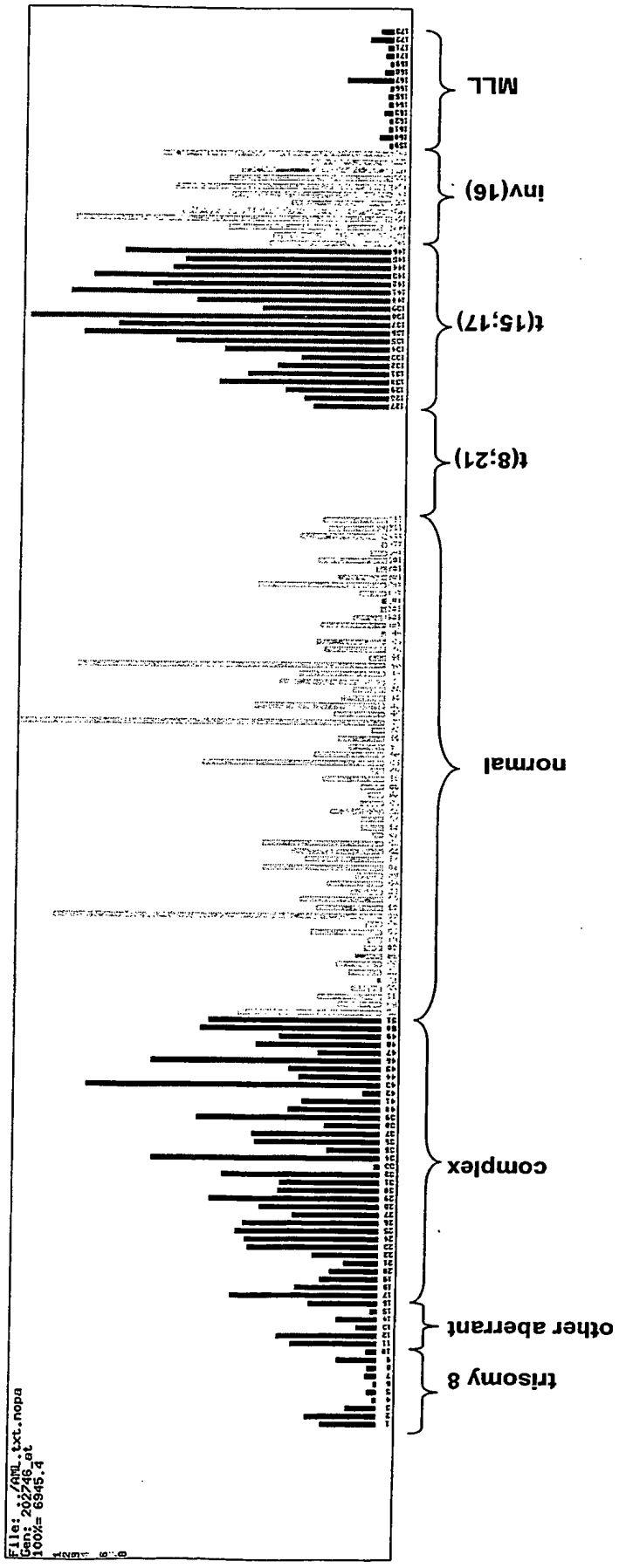


Figure 349

203074_at, ANXA8, AML t(15;17) high

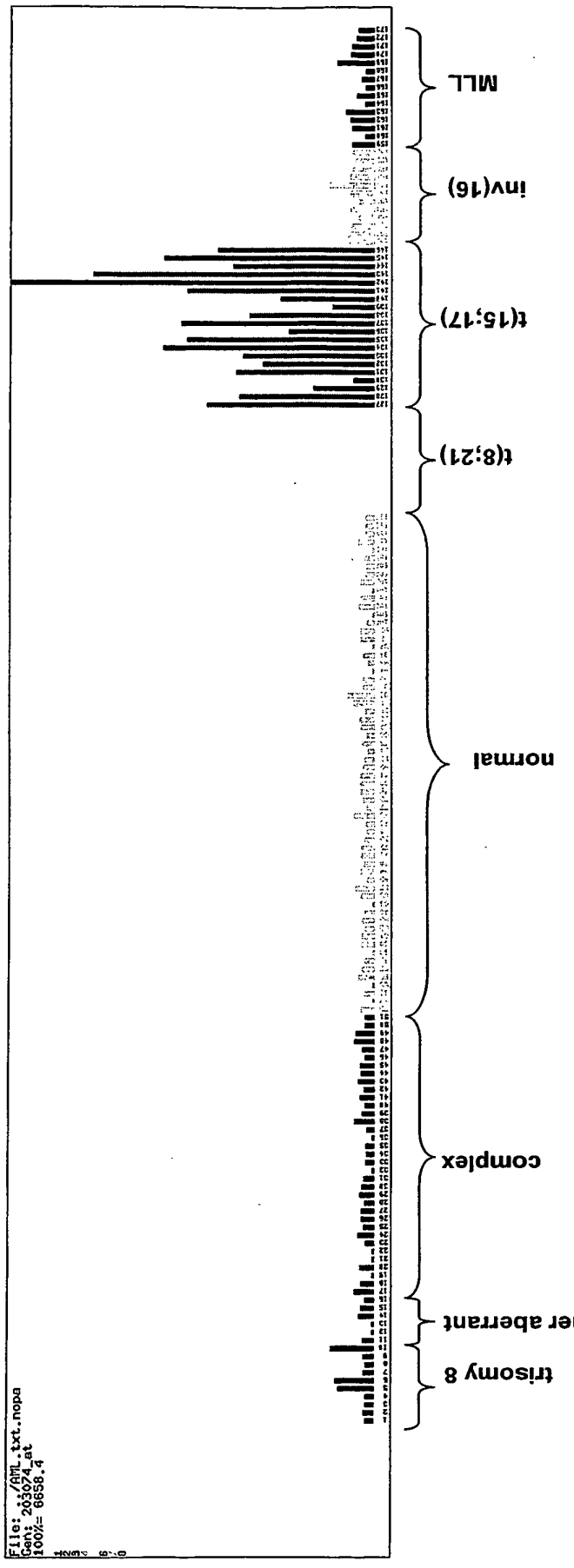


Figure 350

203092_at, TIMM44, AML inv(16) low

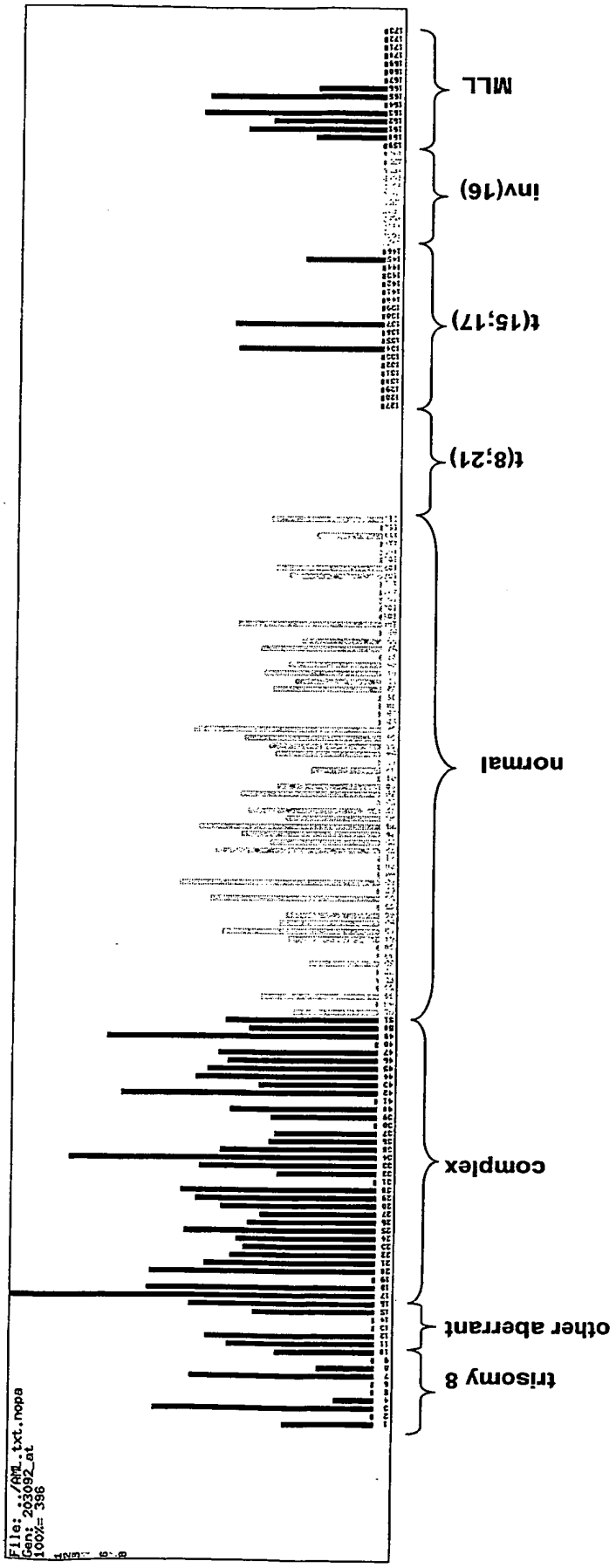


Figure 351

203151_at, MAP1A, AML t(8;21) low

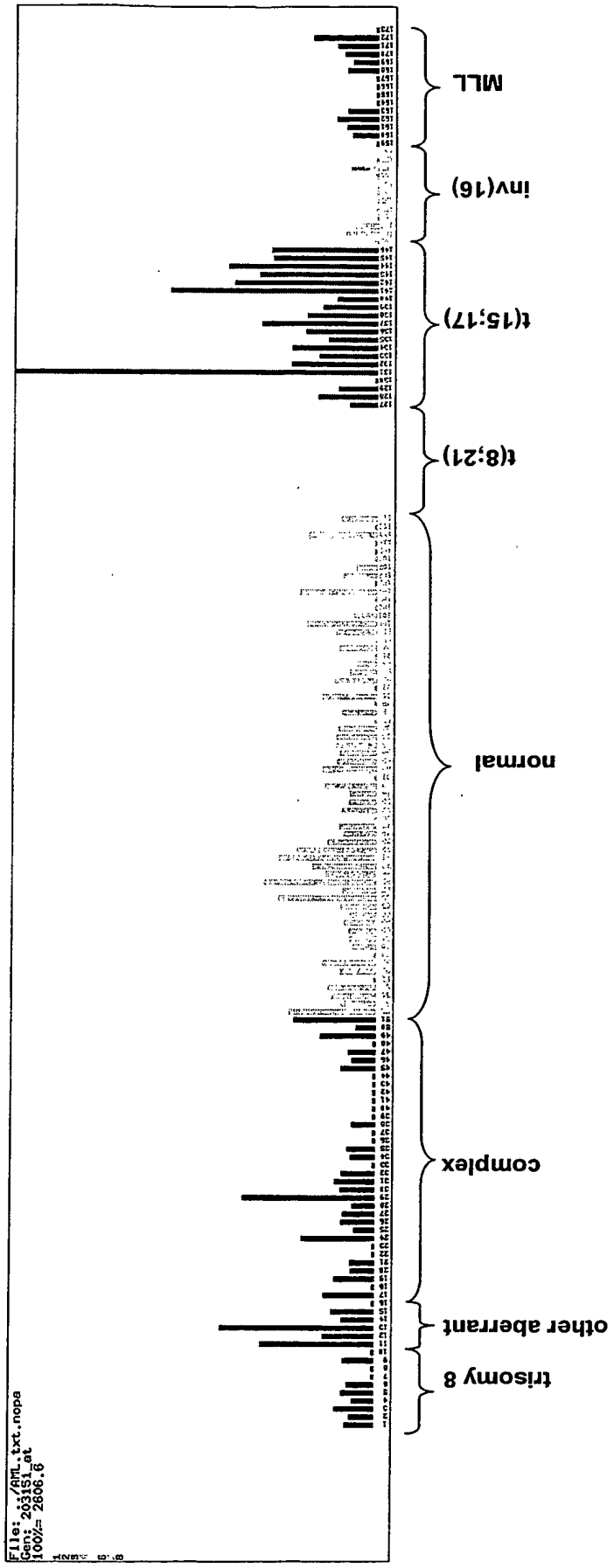


Figure 352

205528_s_at, CBFA2T1, AML t(8;21) high

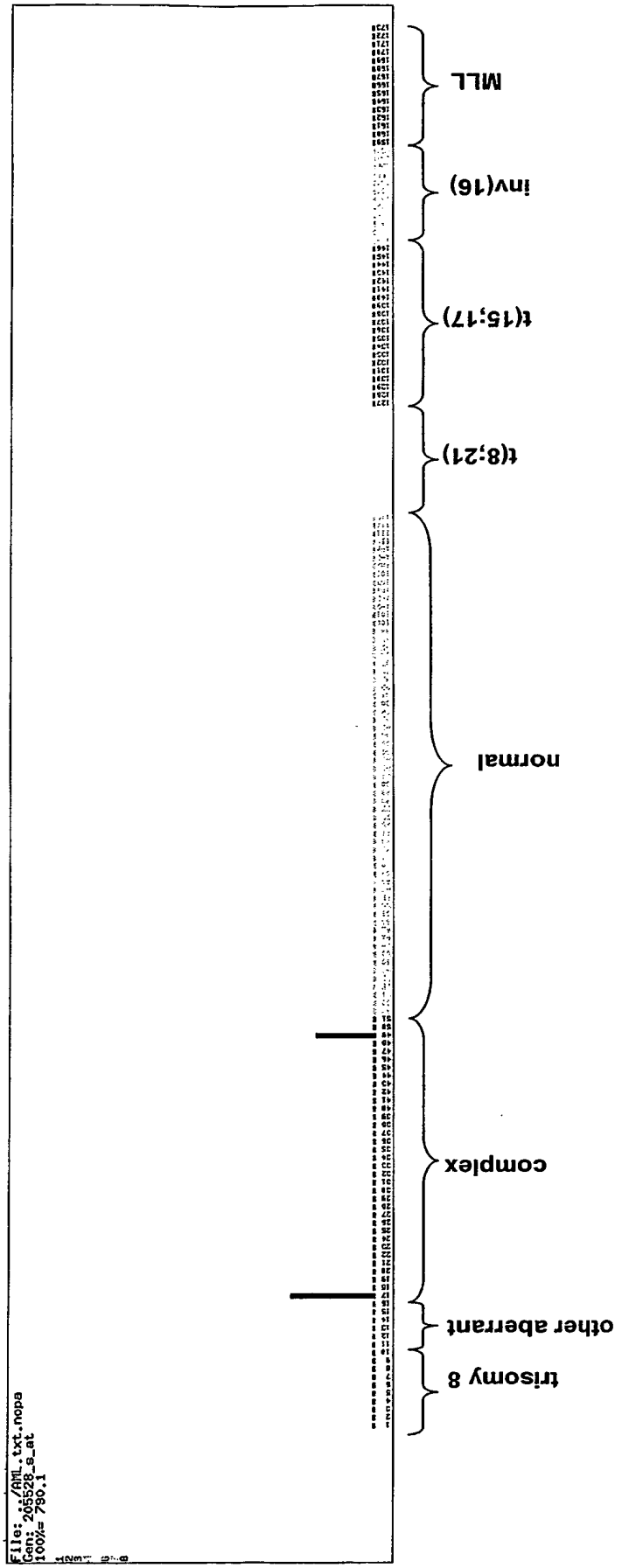


Figure 353

205529_s_at, CBFA2T1, AML t(8;21) high

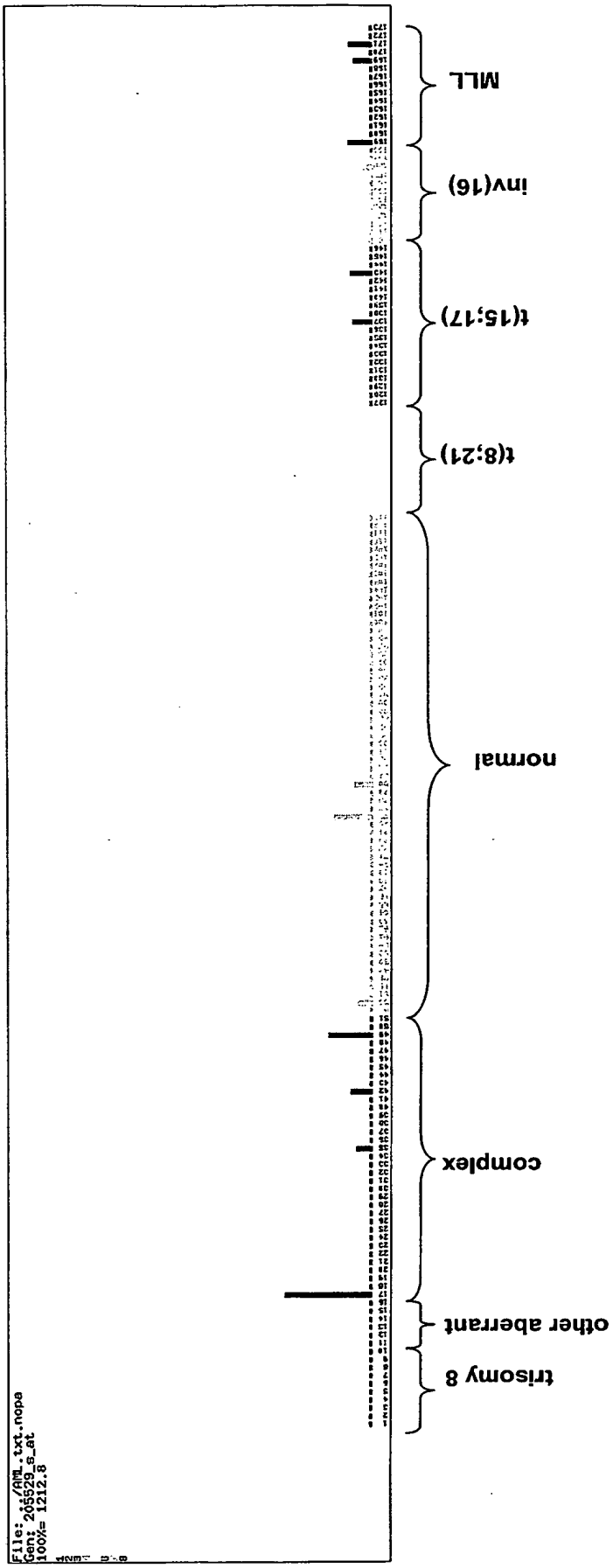


Figure 354

204425_at, ARHGAP4, AML t(15;17) low

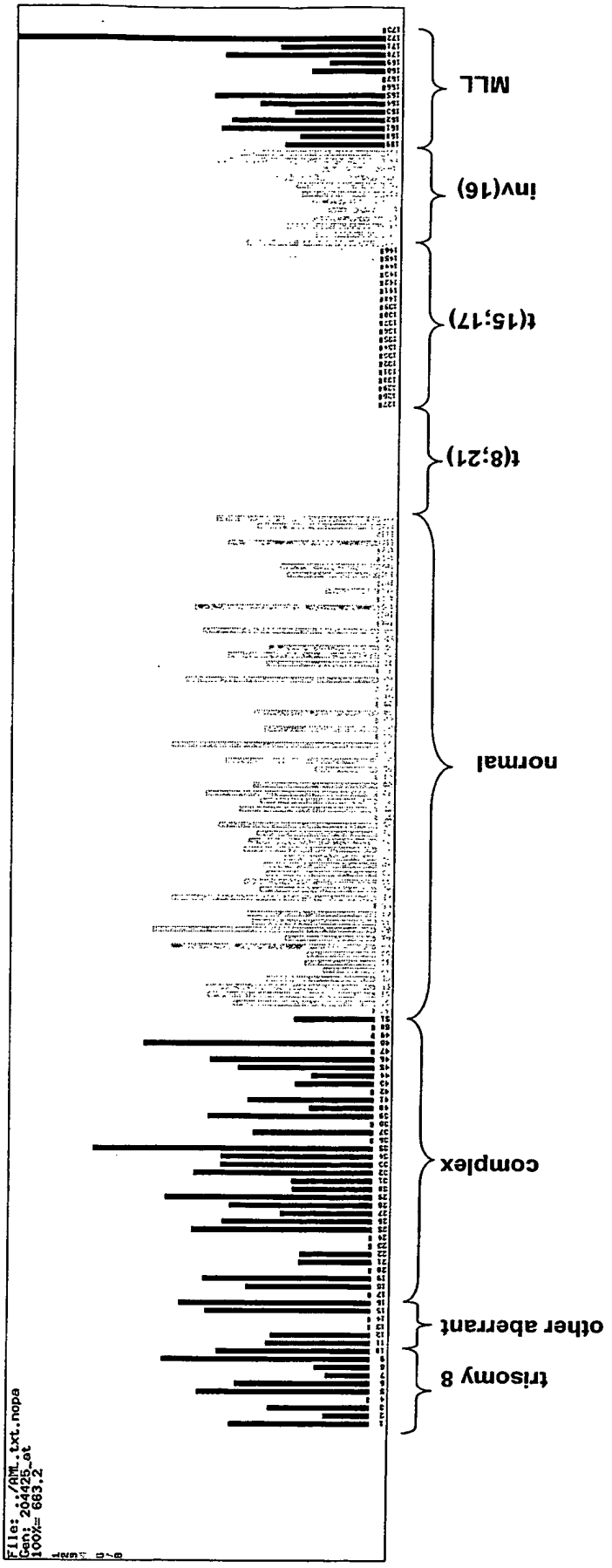


Figure 355

205366_s_at, HOXB6, AML t(8;21) low, AML t(15;17) low, AML inv(16) low, AML MLL low

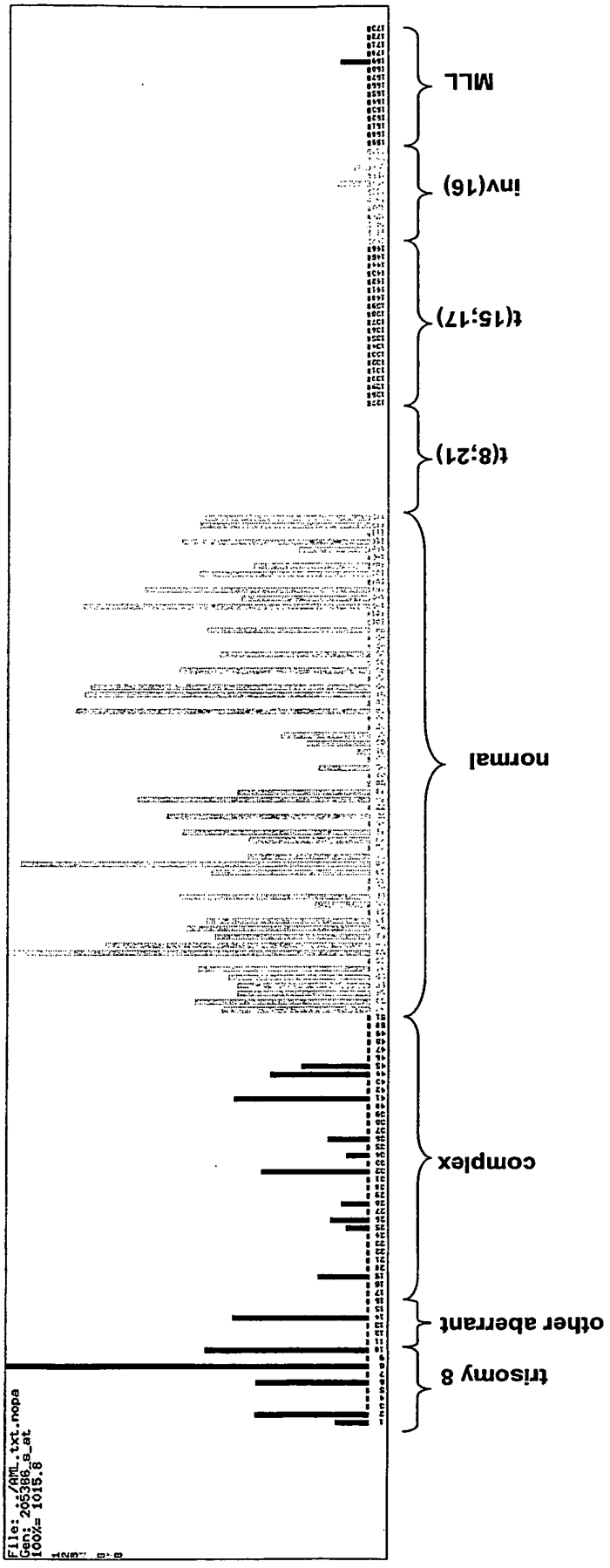


Figure 356

205380_at, PDZK1, other high

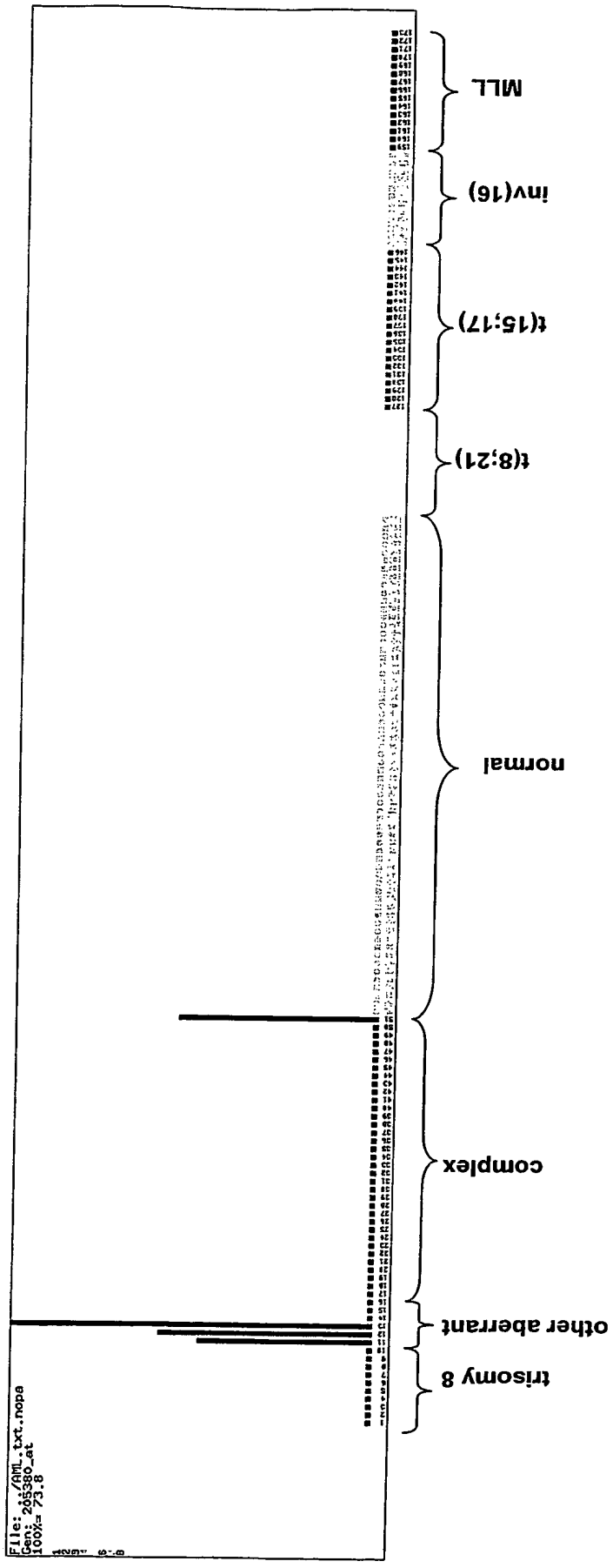


Figure 357

205472_s_at, DACH, AML MLL high

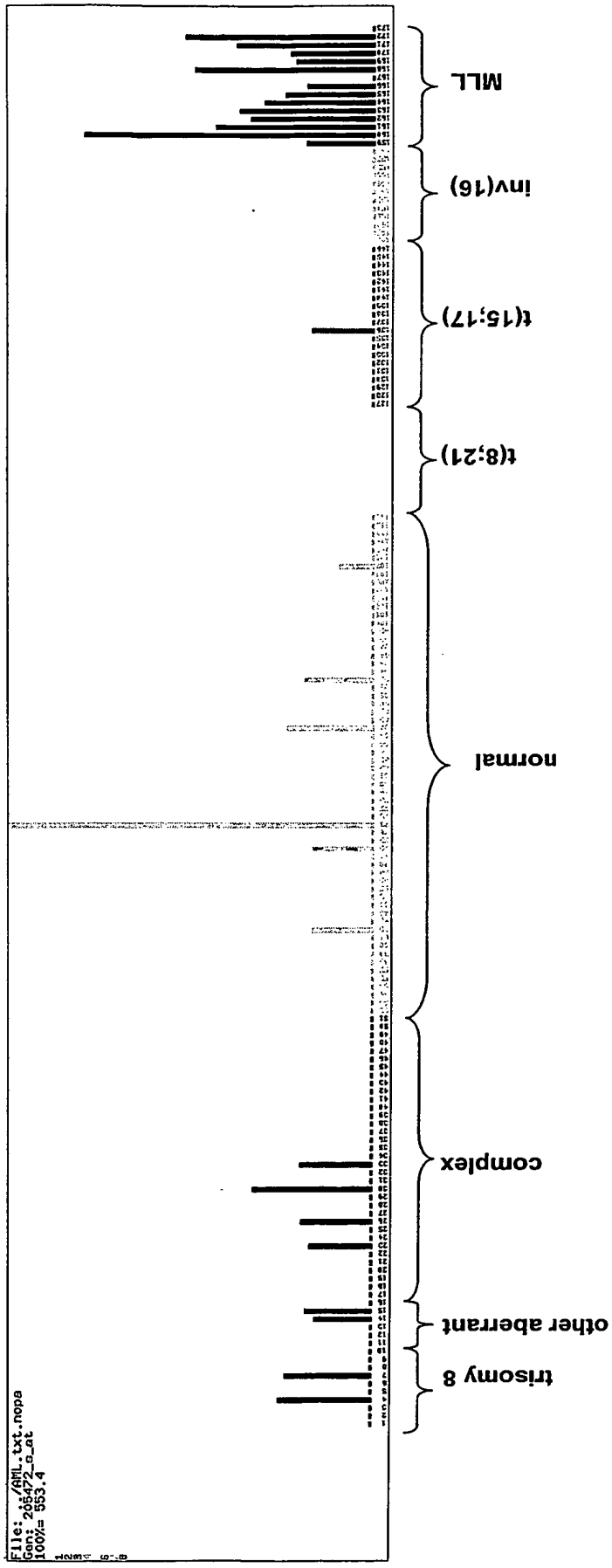


Figure 358

225330_at, AML inv(16) low

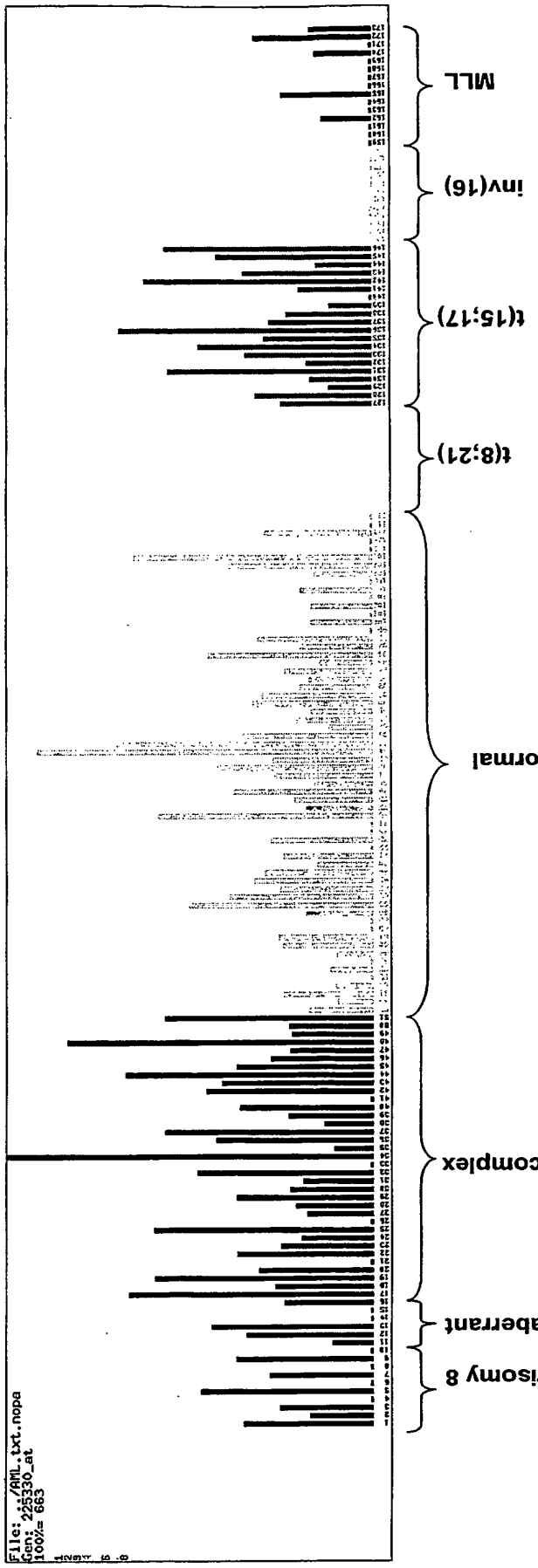


Figure 359

228660_x_at, SEMA4F, other high

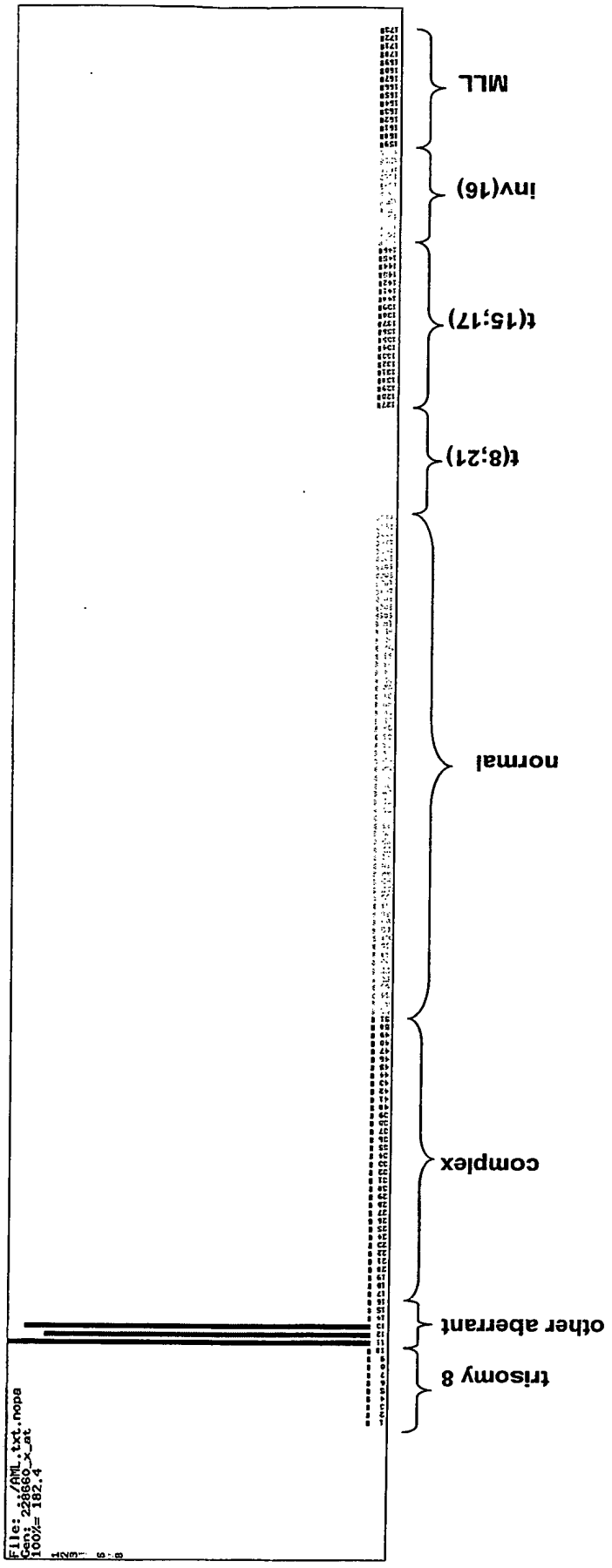


Figure 360

206761_at, TACTILE, AML MLL low

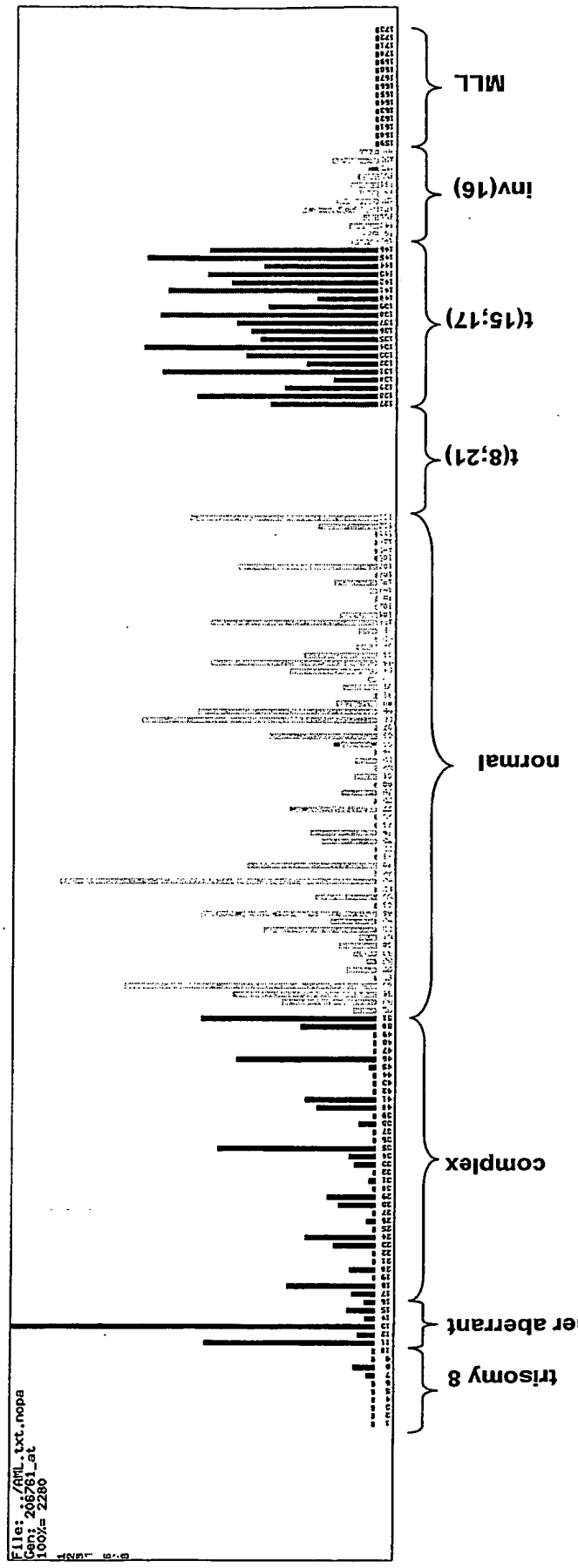


Figure 361

206940_s_at, POU4F1, AML t(8;21) high

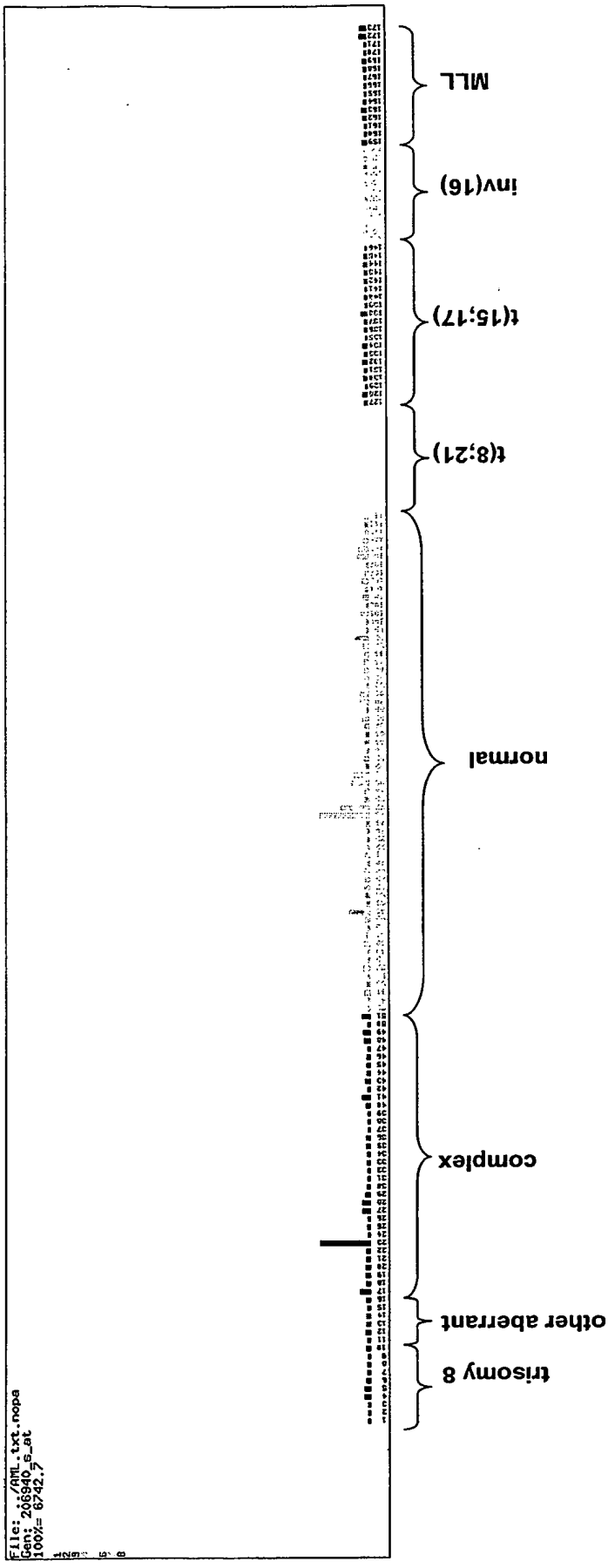


Figure 362

211341_at, POU4F1, AML t(8;21) high

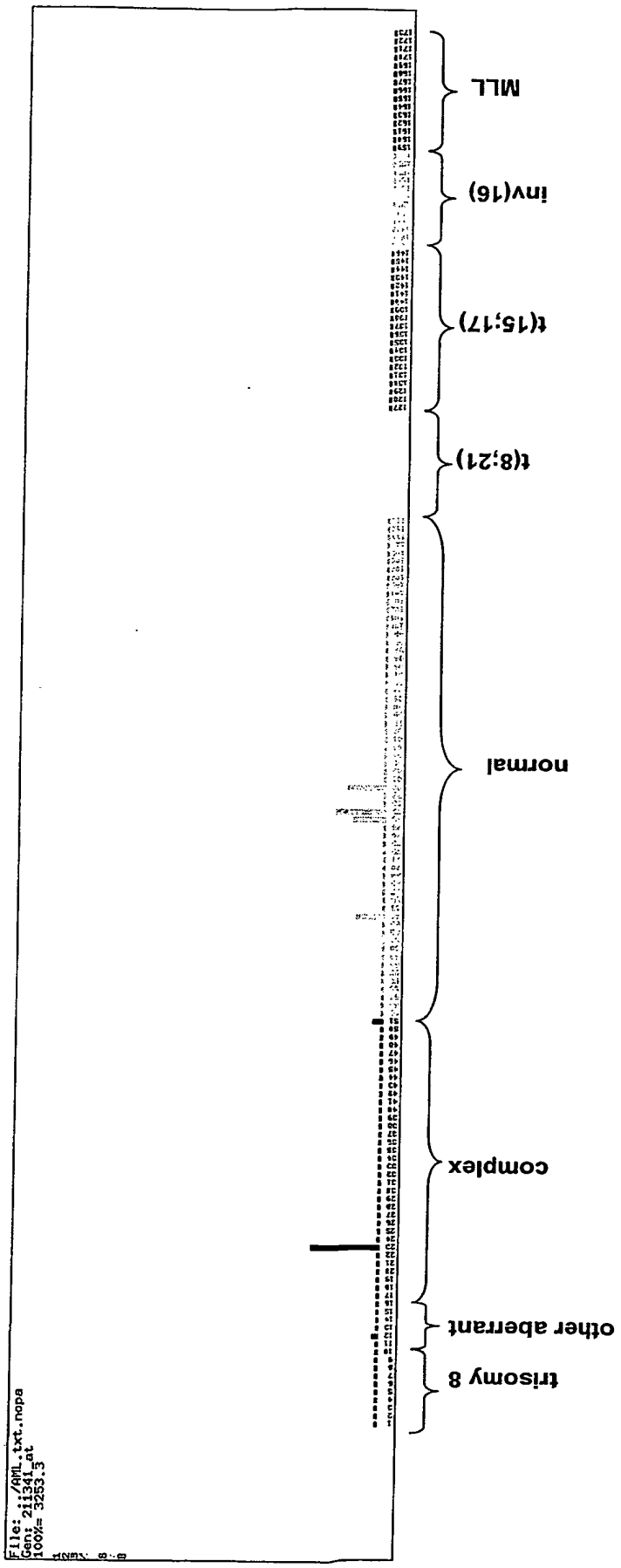


Figure 363

212850_s_at, LRP4, AML inv(16) high

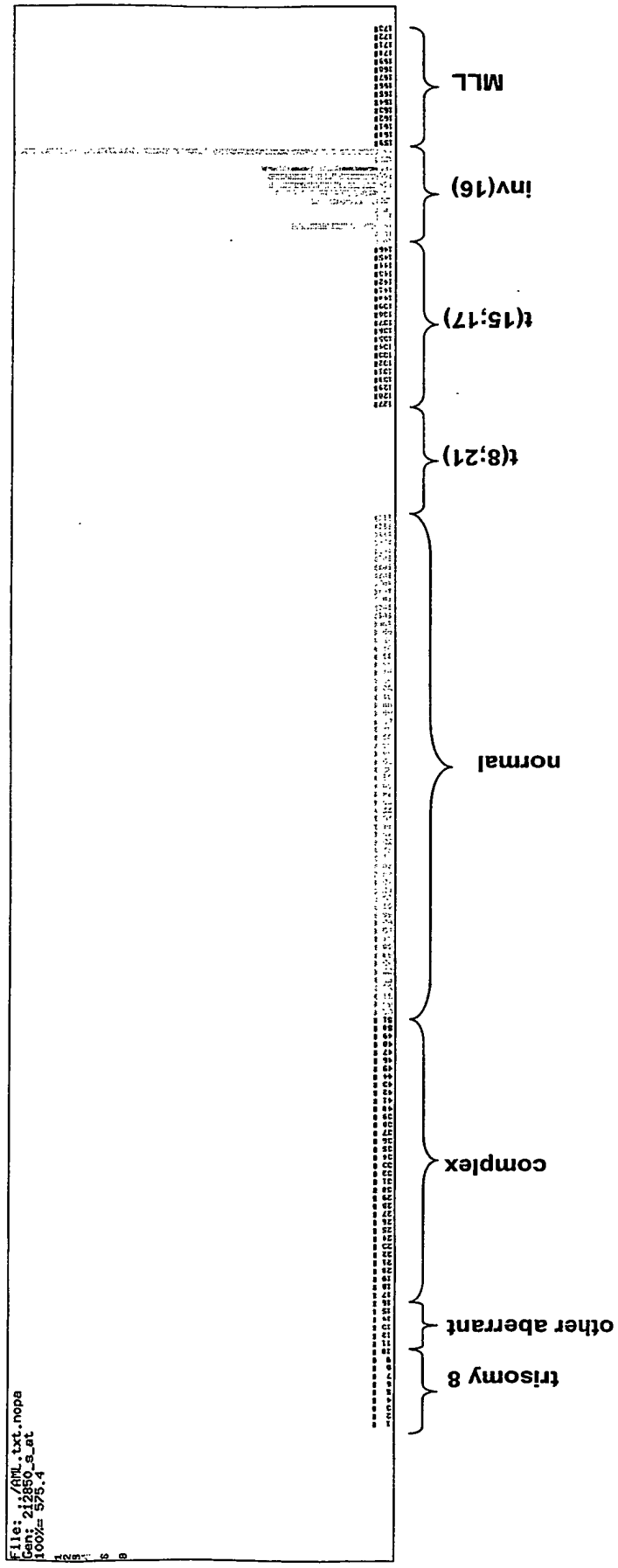


Figure 364

222166_at, AML +8 low

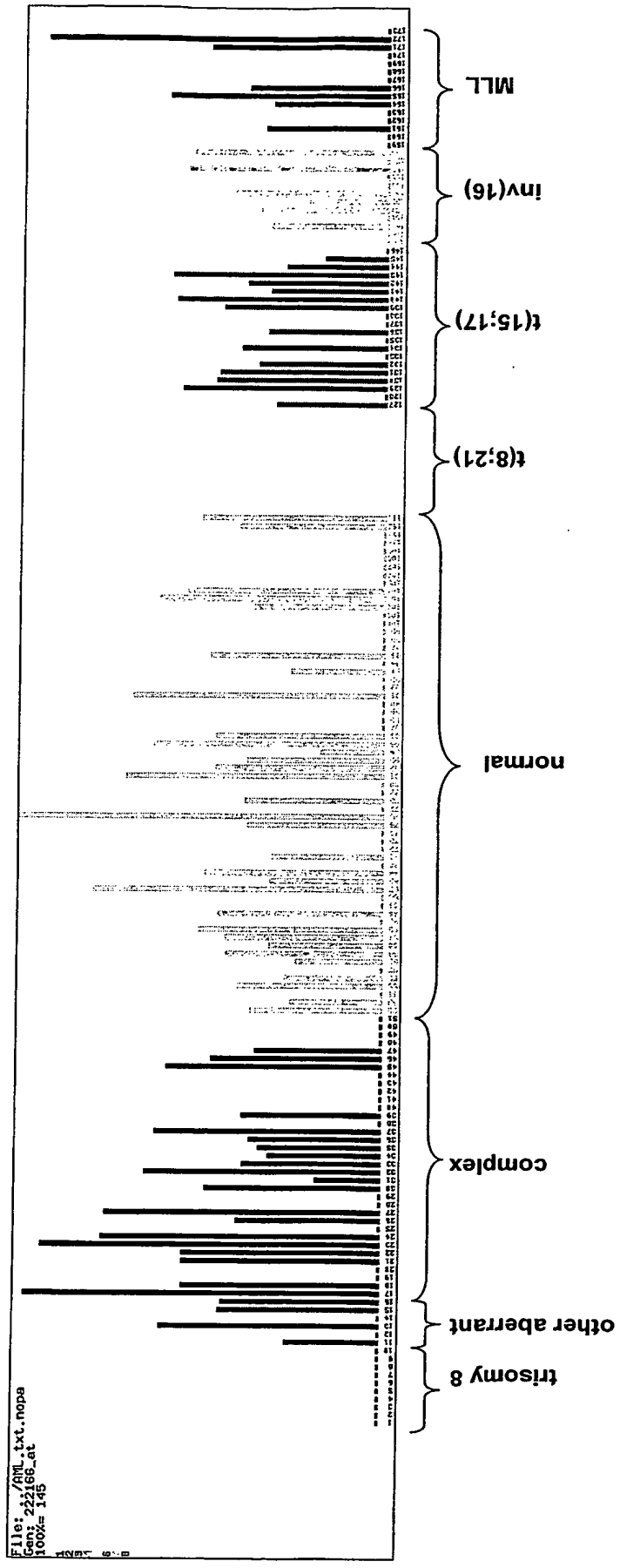


Figure 365

222335_at, AML MLL low

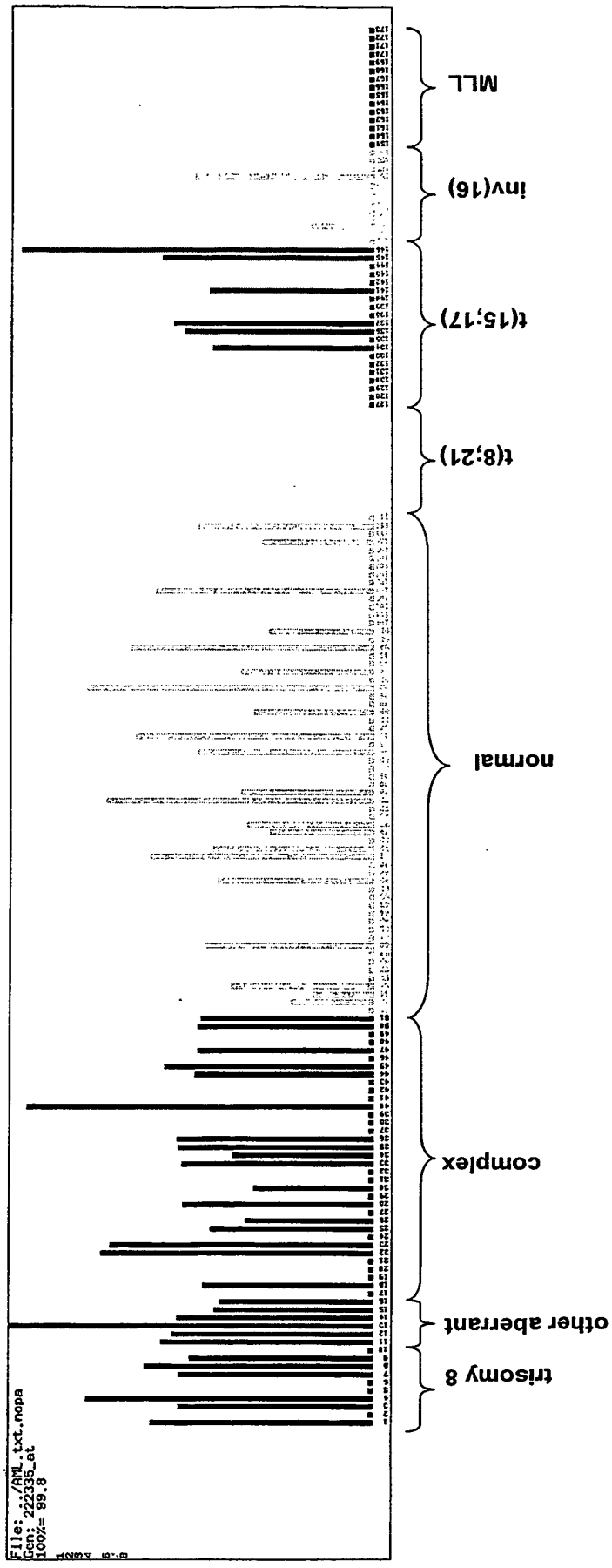


Figure 366

223318_s_at, MGC10974, AML complex low

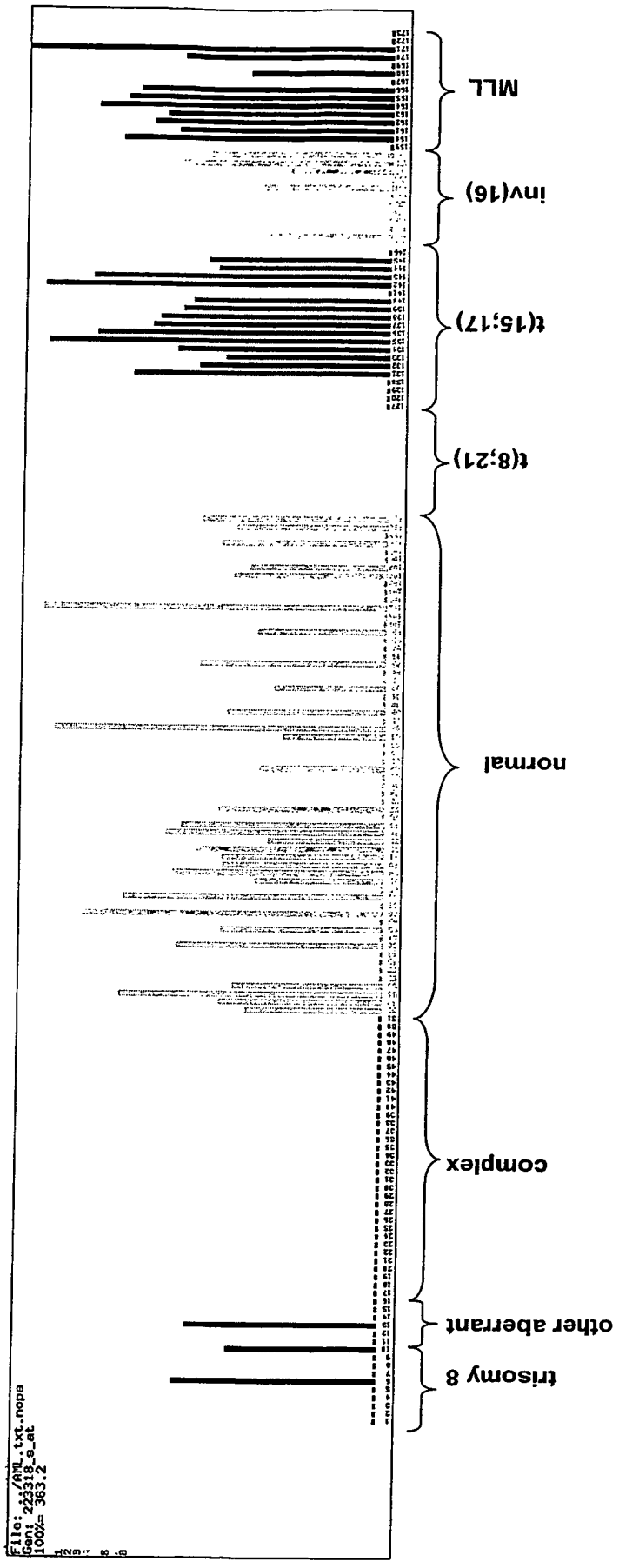


Figure 367

228827_at, AML t(8;21) high

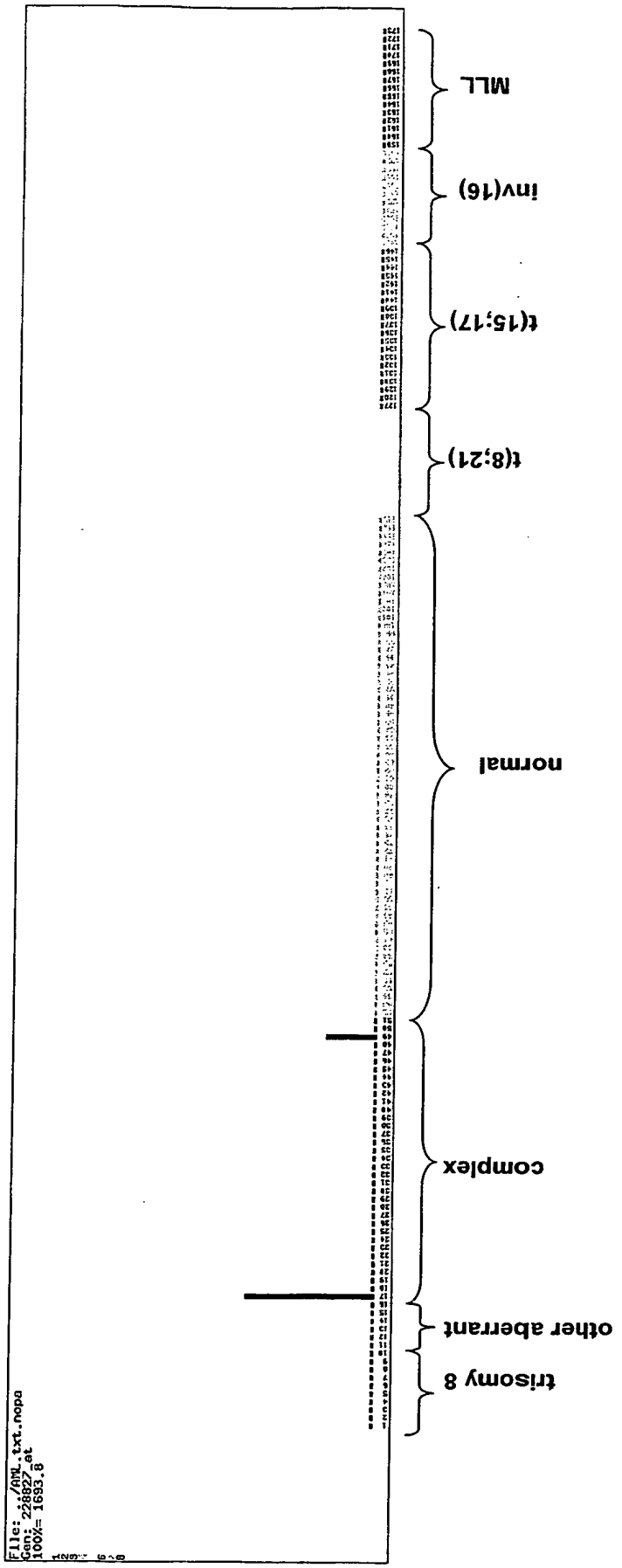


Figure 368

228904_at, AML t(8;21) low, AML t(15;17) low,
AML inv(16) low, AML MLL low

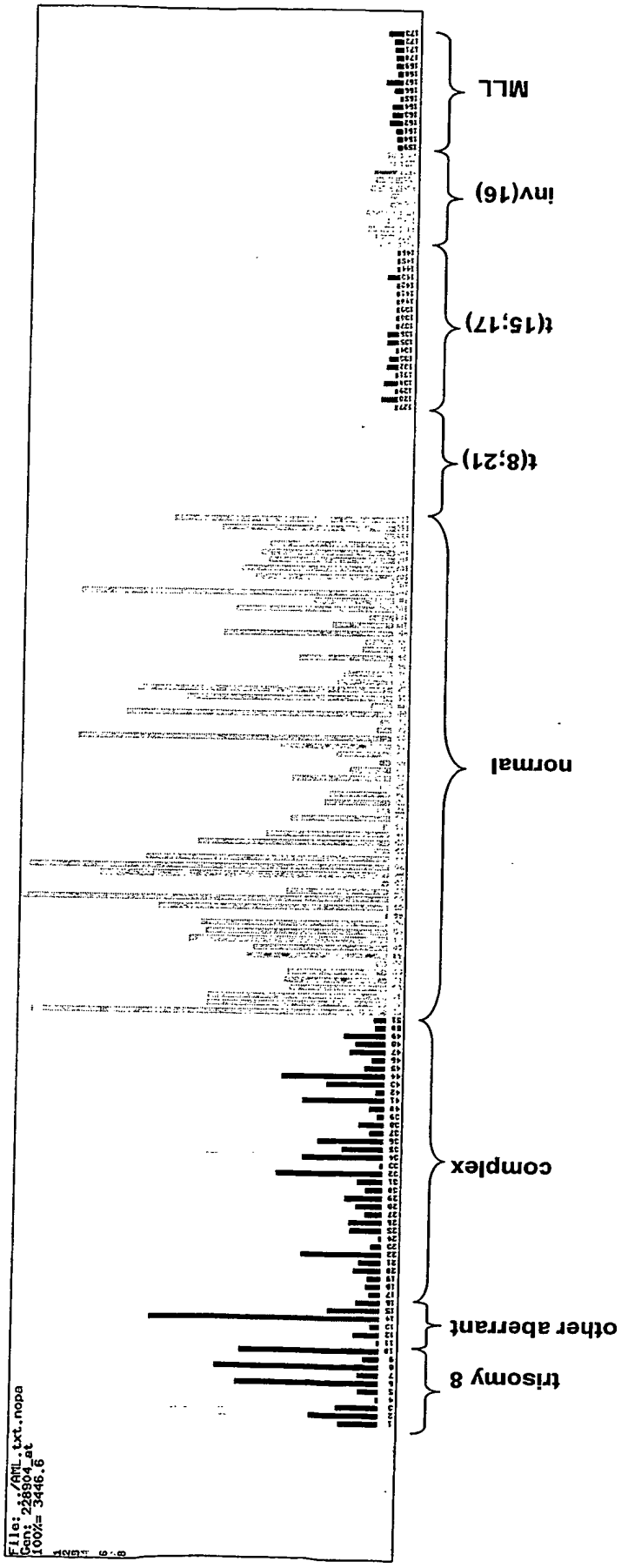


Figure 369

231277_x_at, AML complex low

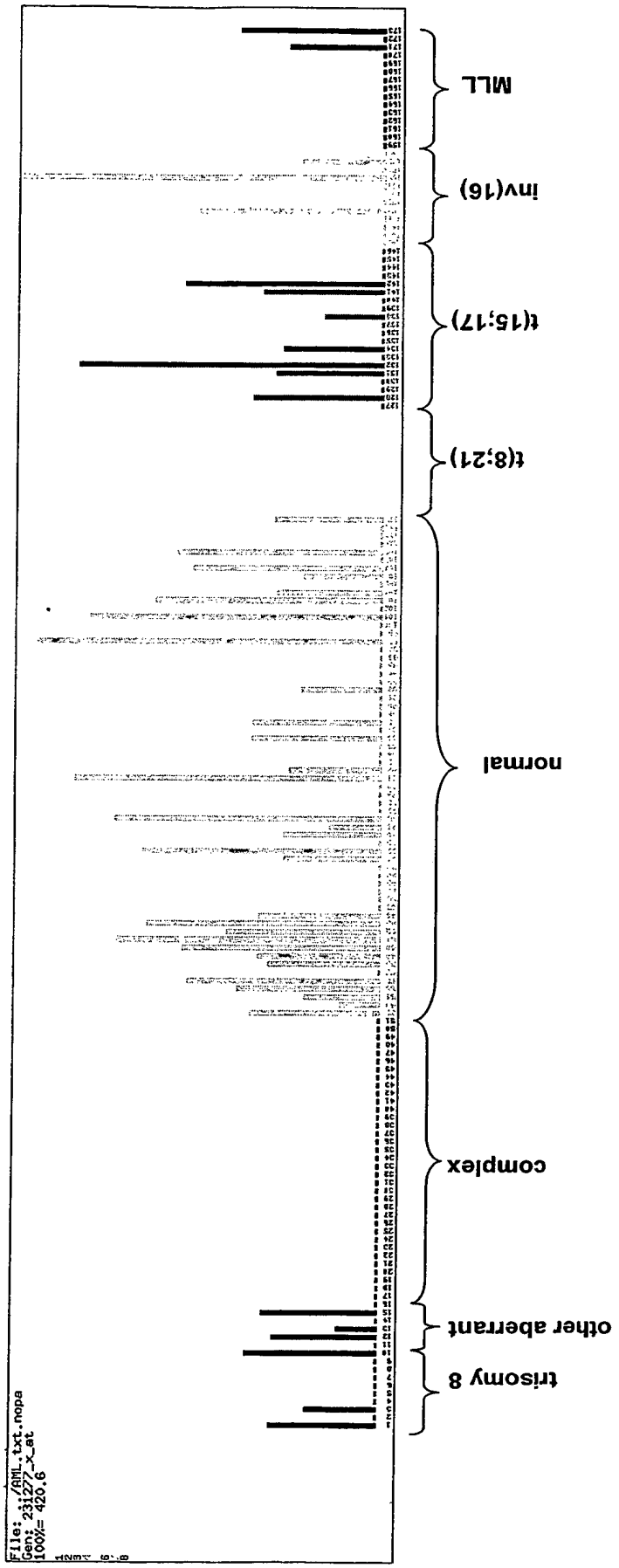


Figure 370

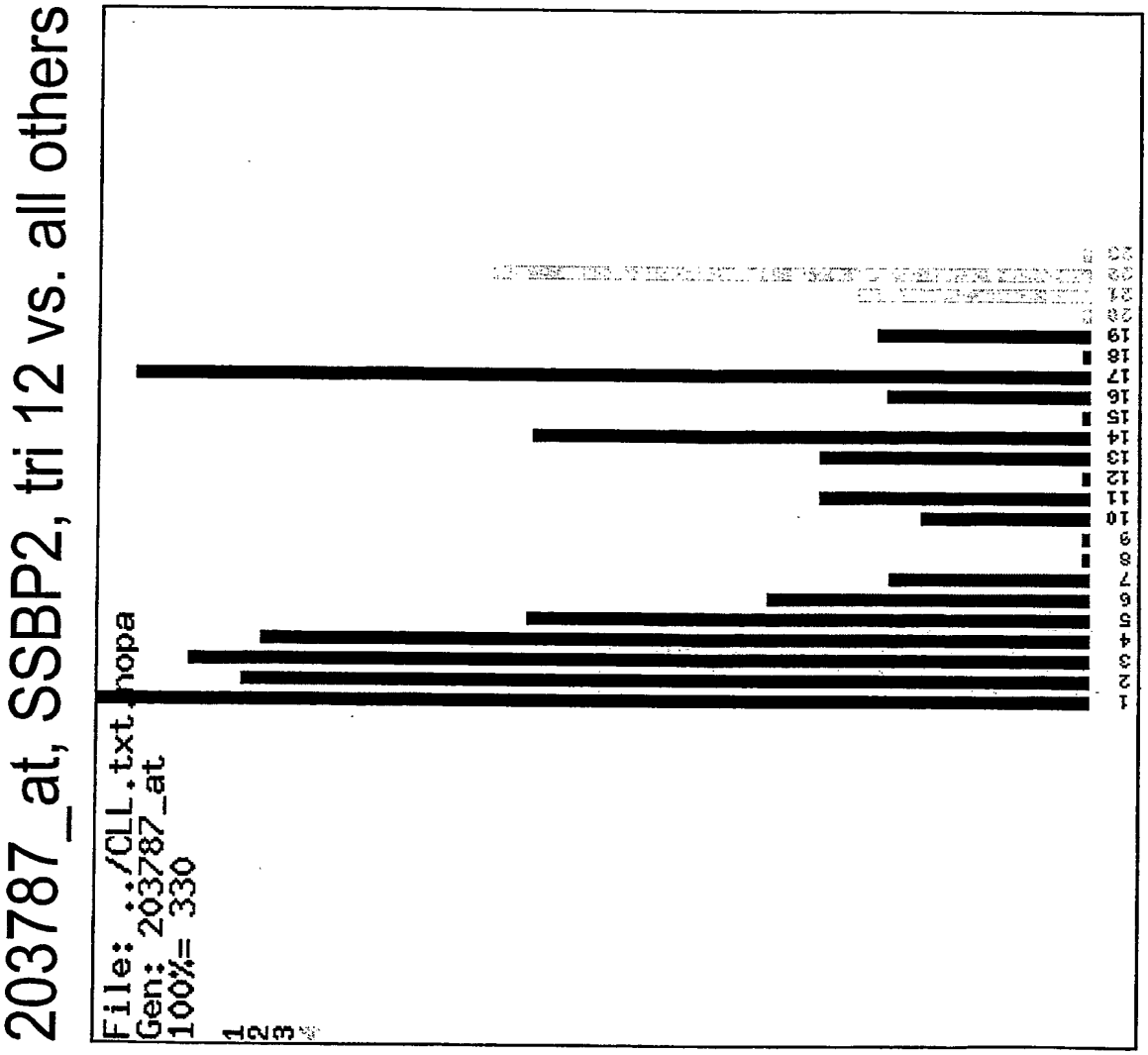

203787_at, SSBP2, tri 12 vs. all others
File: ..:/CLL.txt
Gen: 203787_at
100%= 330
1 2 3
+12
11q-
13q-
17p-
normal

Figure 371

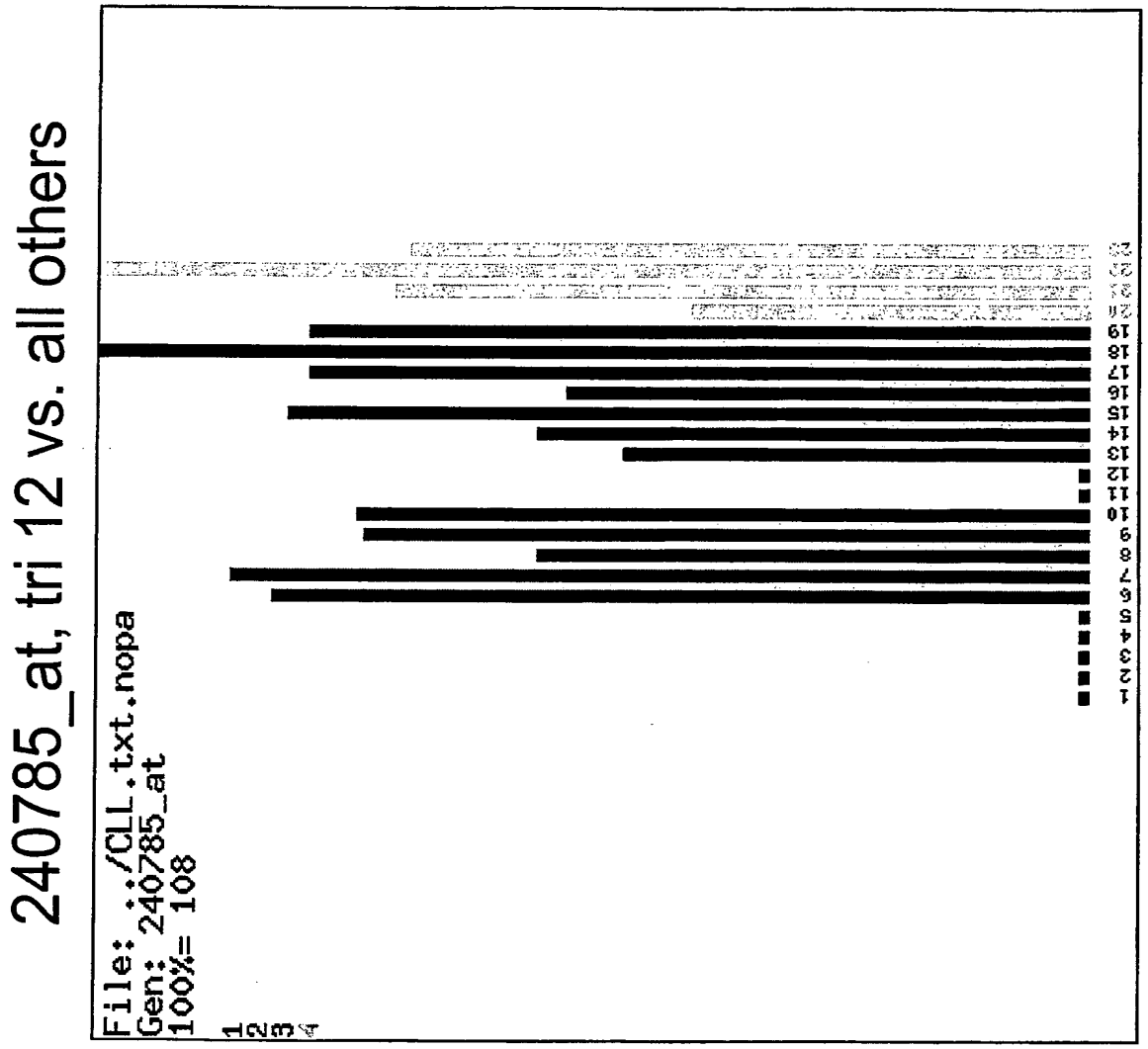

240785_at, tri 12 vs. all others
File: ../CLL.txt.nopa
Gen: 240785_at
100%= 108
1 2 3
+12
11q-
13q-
17p-
normal

Figure 372

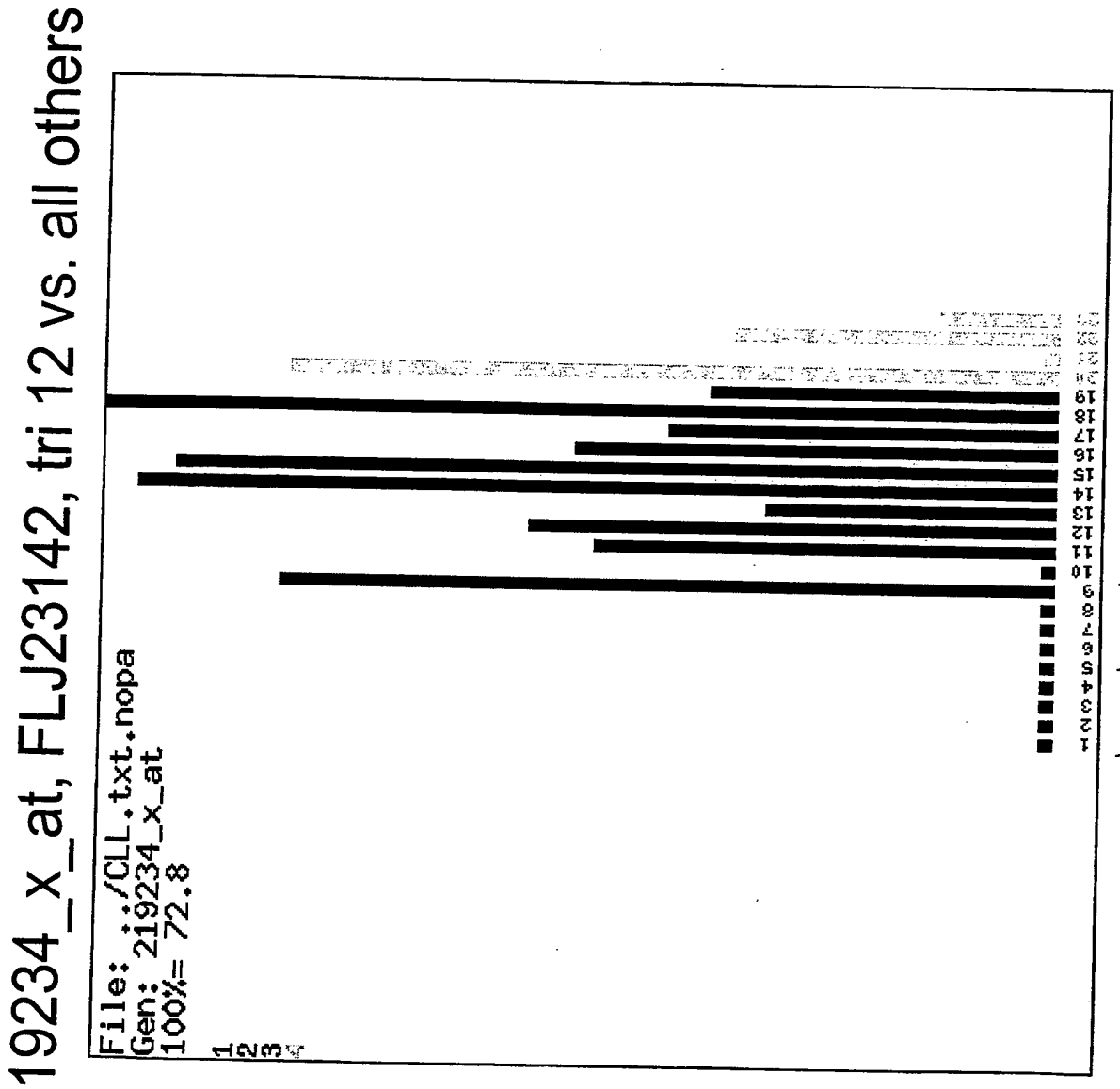

219234_x_at, FLJ23142, tri 12 vs. all others
File: ../CLL.txt.nopa
Gen: 219234_x_at
100%= 72.8
1 2 3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
+12
11q-
13q-
17p-
normal

Figure 373

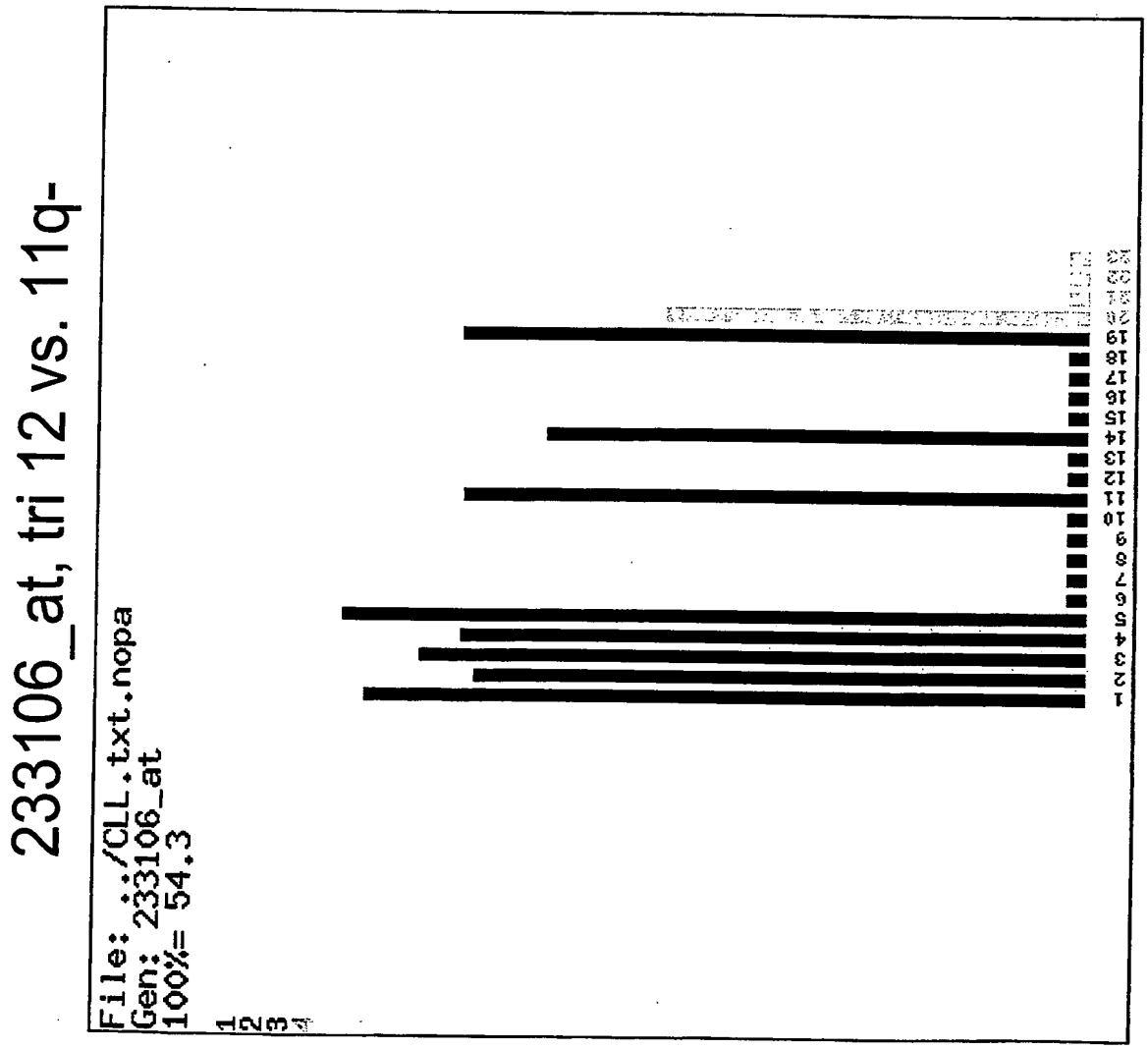

233106_at, tri 12 vs. 11q-
File: ../CLL.txt.nopa
Gen: 233106_at
100%= 54.3
1 2 3
+12 11q- 13q- 17p- normal

Figure 374

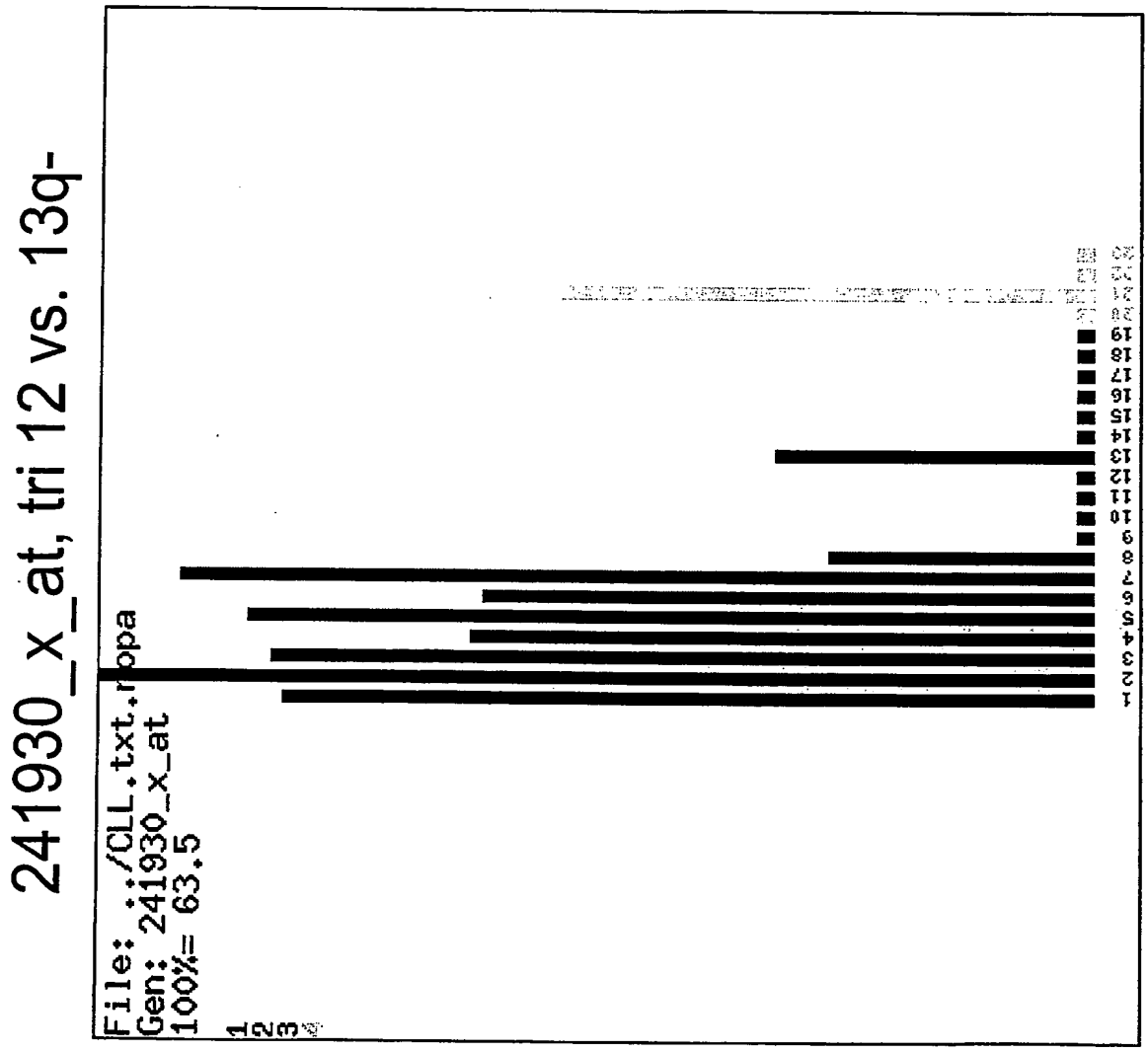

241930_x_at, tri 12 vs. 13q-
File: ../CLL.txt.nopa
Gen: 241930_x_at
100%= 63.5
1
2
3
+12
11q-
13q-
17p-
normal

Figure 375

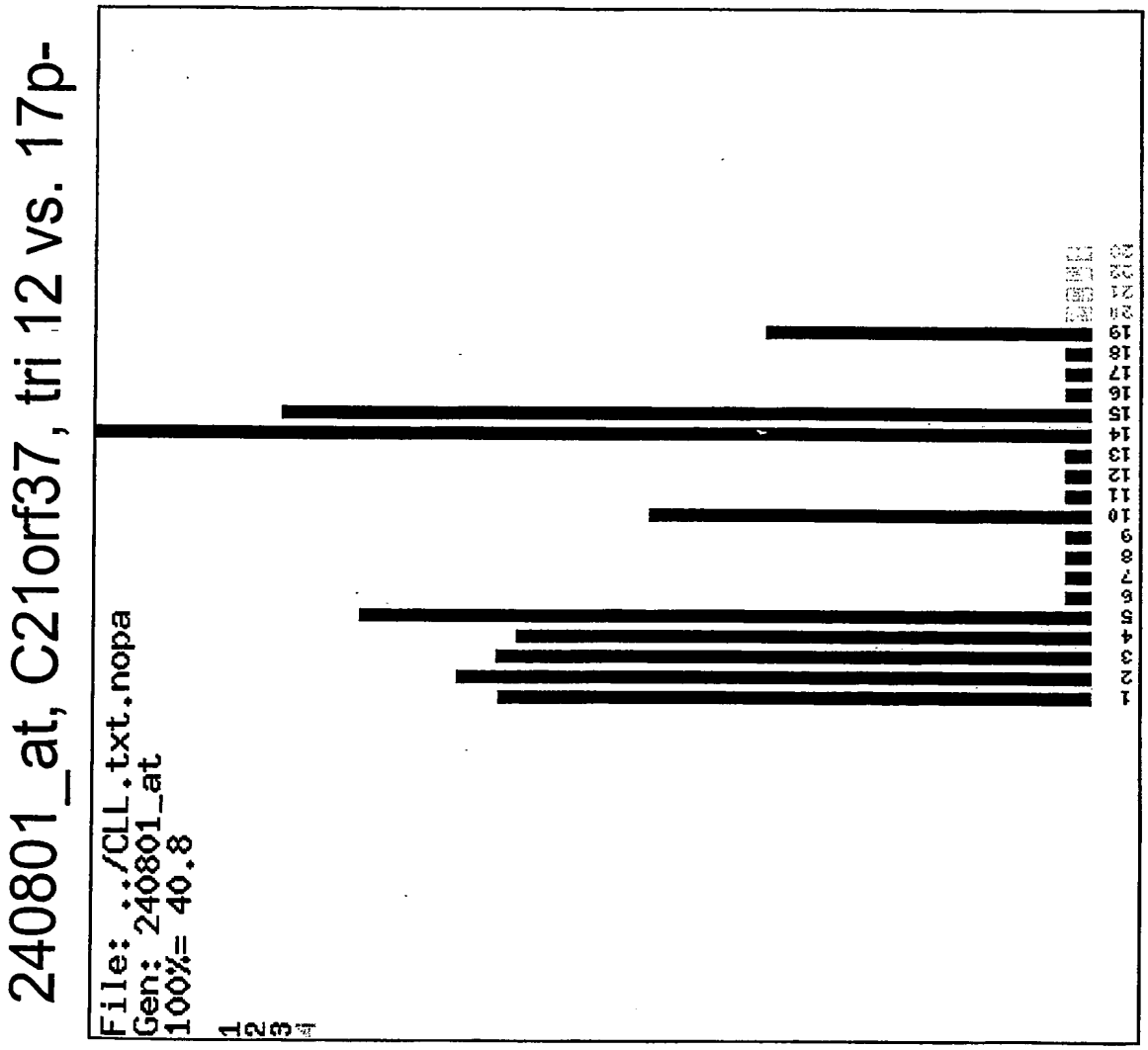

240801_at, C21orf37, tri 12 vs. 17p-
File: ../CLL.txt.nopa
Gen: 240801_at
100%= 40.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
+12 11q- 13q- 17p- normal

Figure 376

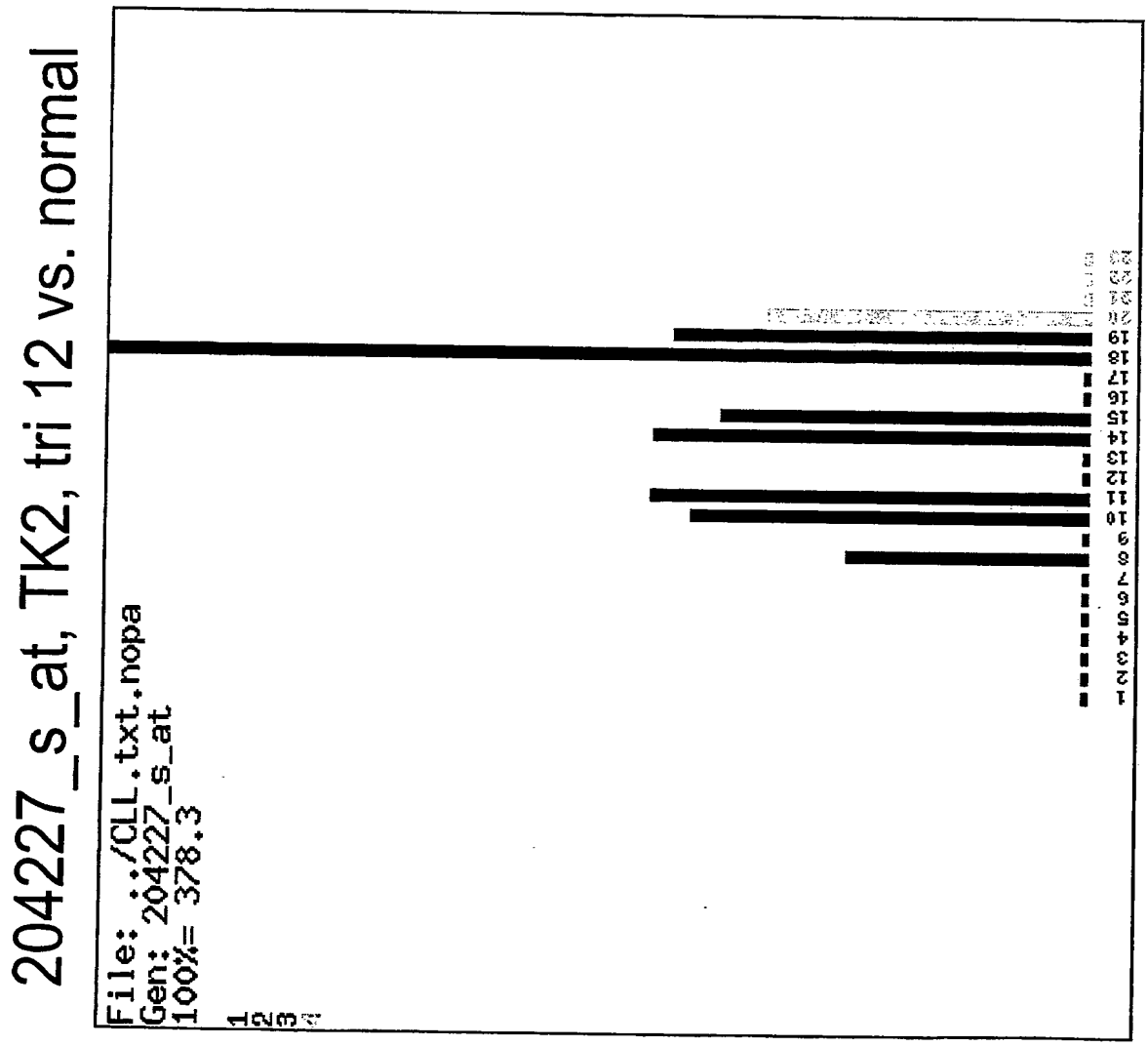

204227_s_at, TK2, tri 12 vs. normal
File: ../CLL.txt.nopa
Gen: 204227_s_at
100%= 378.3
+12
11q-
13q-
17p-
normal

Figure 377

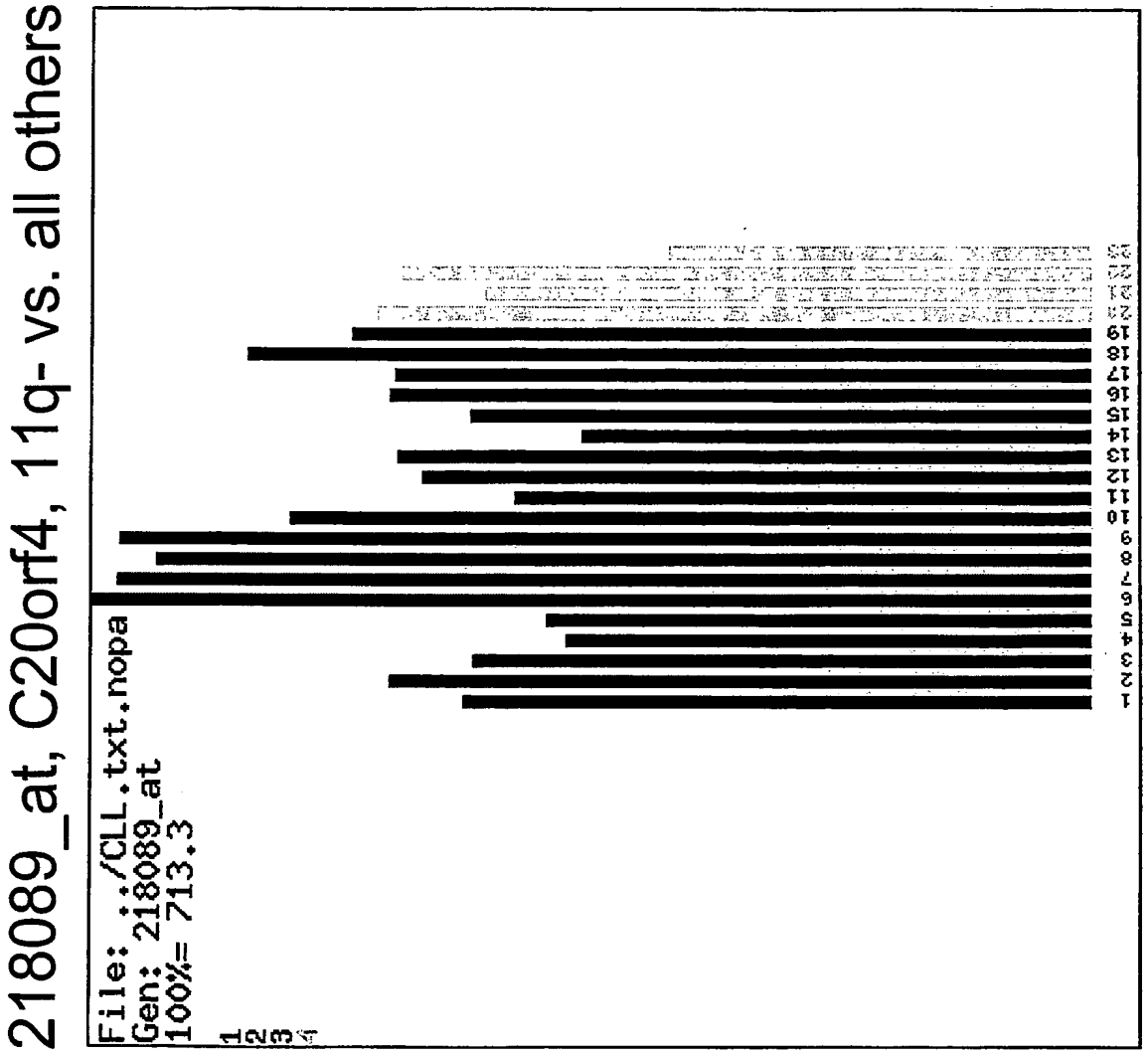

218089_at, C20orf4, 11q- vs. all others
File: ../CLL.txt.nopa
Gen: 218089_at
100%= 713.3
+12
11q-
13q-
17p-
normal

Figure 378

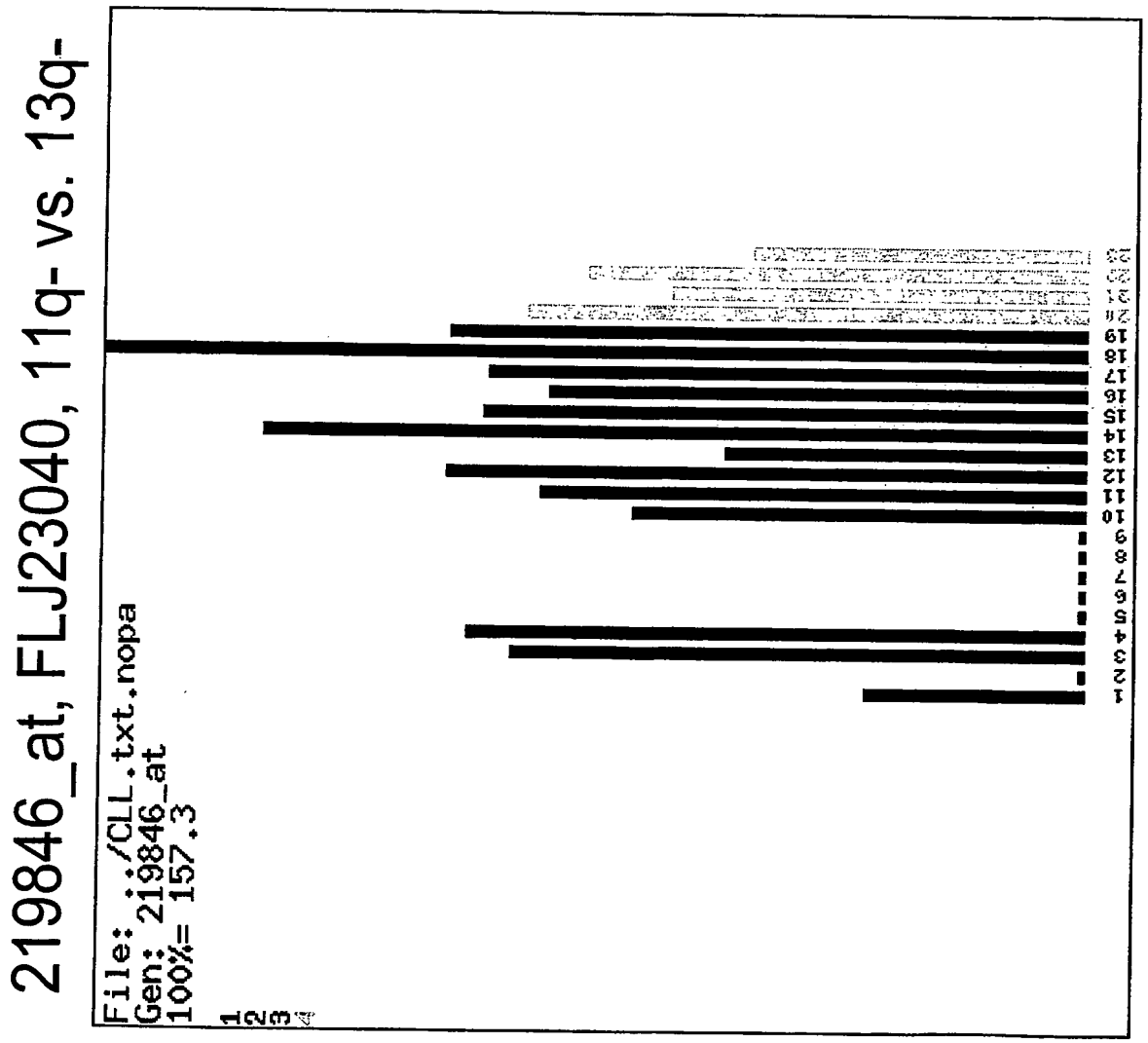

219846_at, FLJ23040, 11q- vs. 13q-
File: ..\CLL.txt.nopa
Gen: 219846_at
100%= 157.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

Figure 379

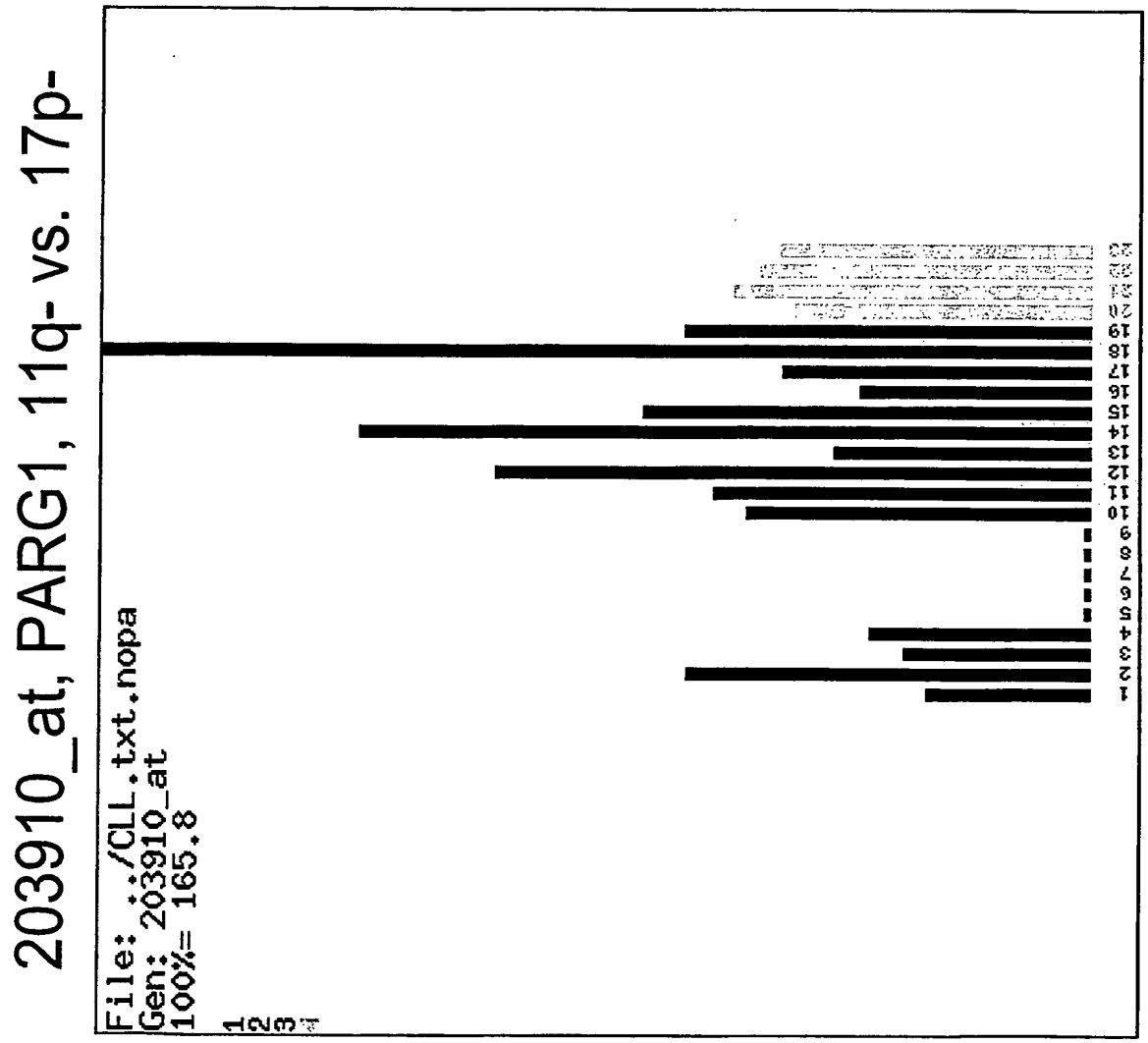

203910_at, PARG1, 11q- vs. 17p-
File: ../CLL.txt.nopa
Gen: 203910_at
100%= 165.8
1 2 3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
+12
11q-
13q-
17p-
normal

Figure 380

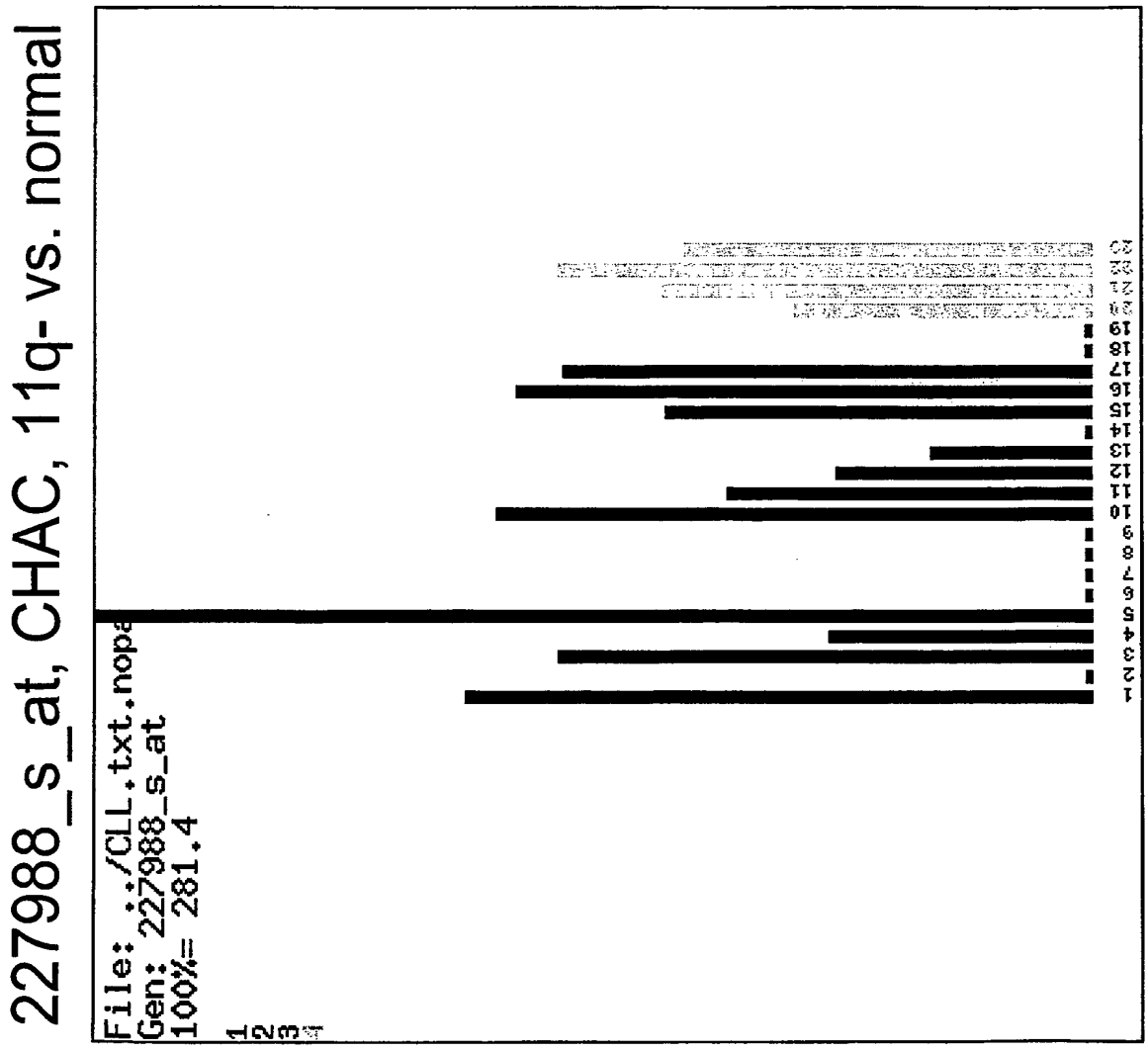

227988_s_at, CHAC, 11q- vs. normal
File: ../CLL.txt.nopa
Gen: 227988_s_at
100%= 281.4
1 2 3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
+12
11q-
13q-
17p-
normal

Figure 381

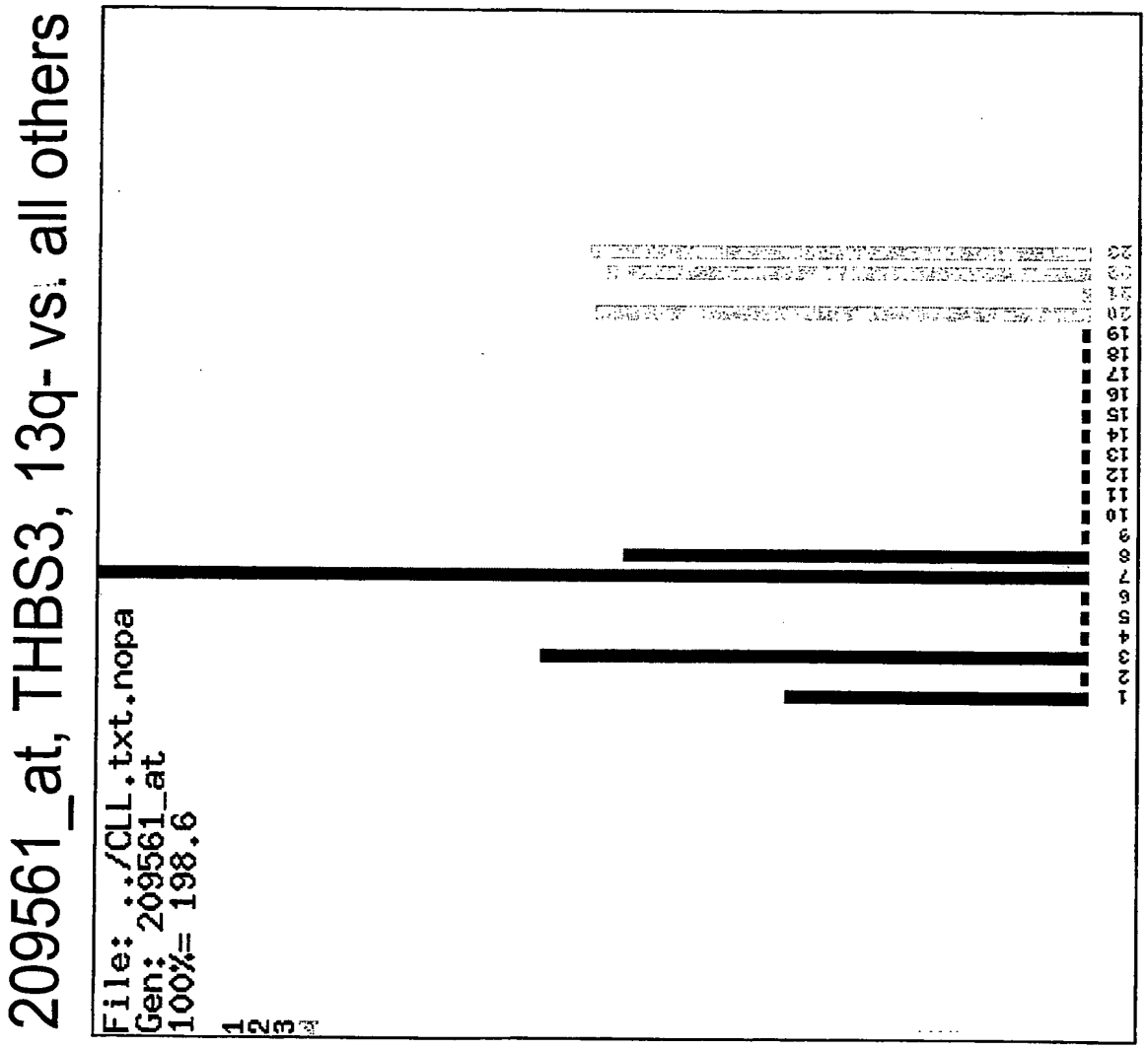

209561_at, THBS3, 13q- vs: all others
File: ../CLL.txt.nopa
Gen: 209561_at
100%= 198.6
1 2 3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
+12
11q-
13q-
17p-
normal

Figure 382

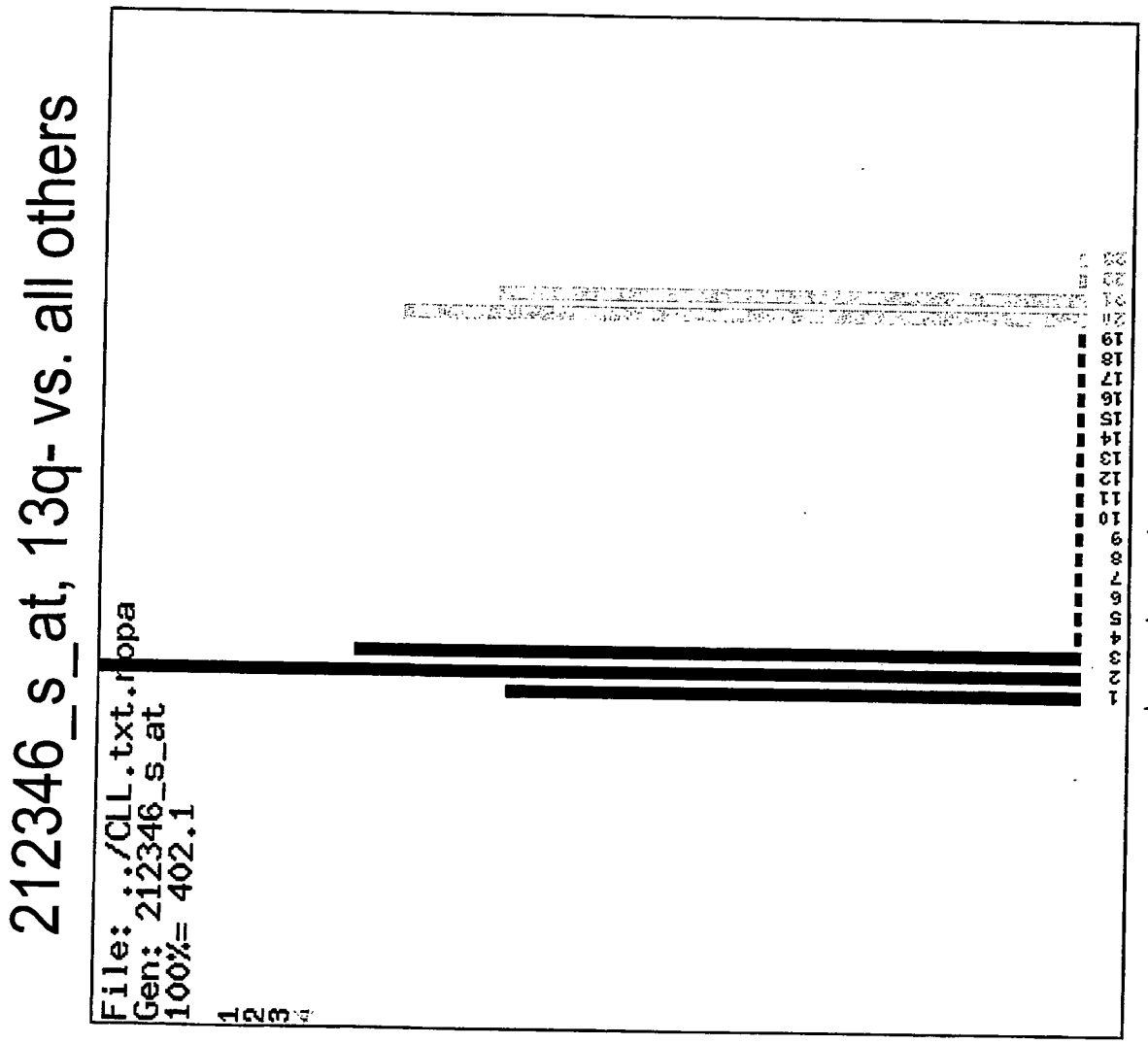

212346_s_at, 13q- vs. all others
File: .../CLL.txt.kappa
Gen: 212346_s_at
100%= 402.1
1 2 3
+12 11q- 13q- 17p- normal

Figure 383

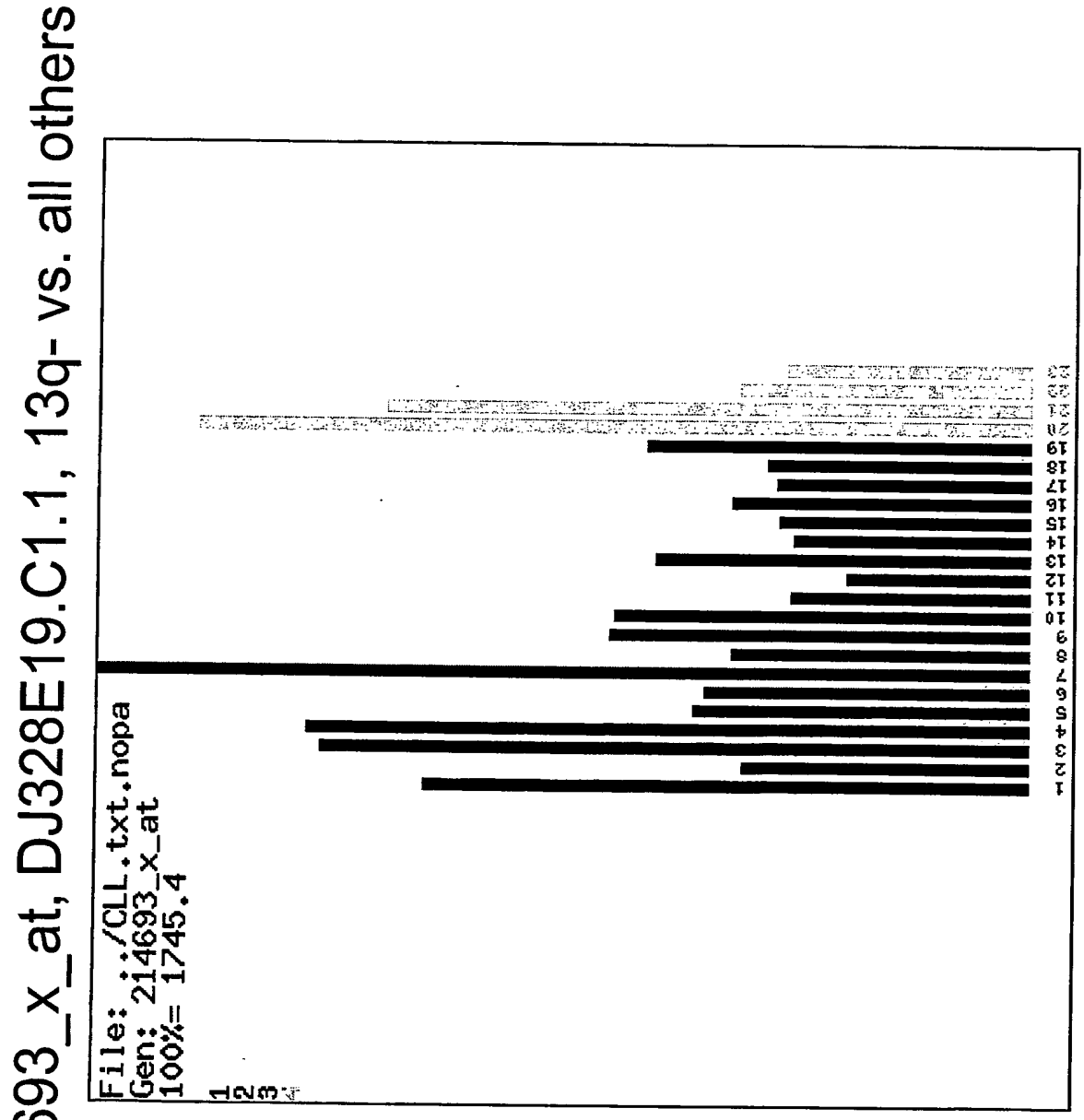

214693_x_at, DJ328E19.C1.1, 13q- vs. all others
File: ../CLL.txt.nopa
Gen: 214693_x_at
100%= 1745.4
1 2 3
+12
11q-
13q-
17p-
normal

Figure 384

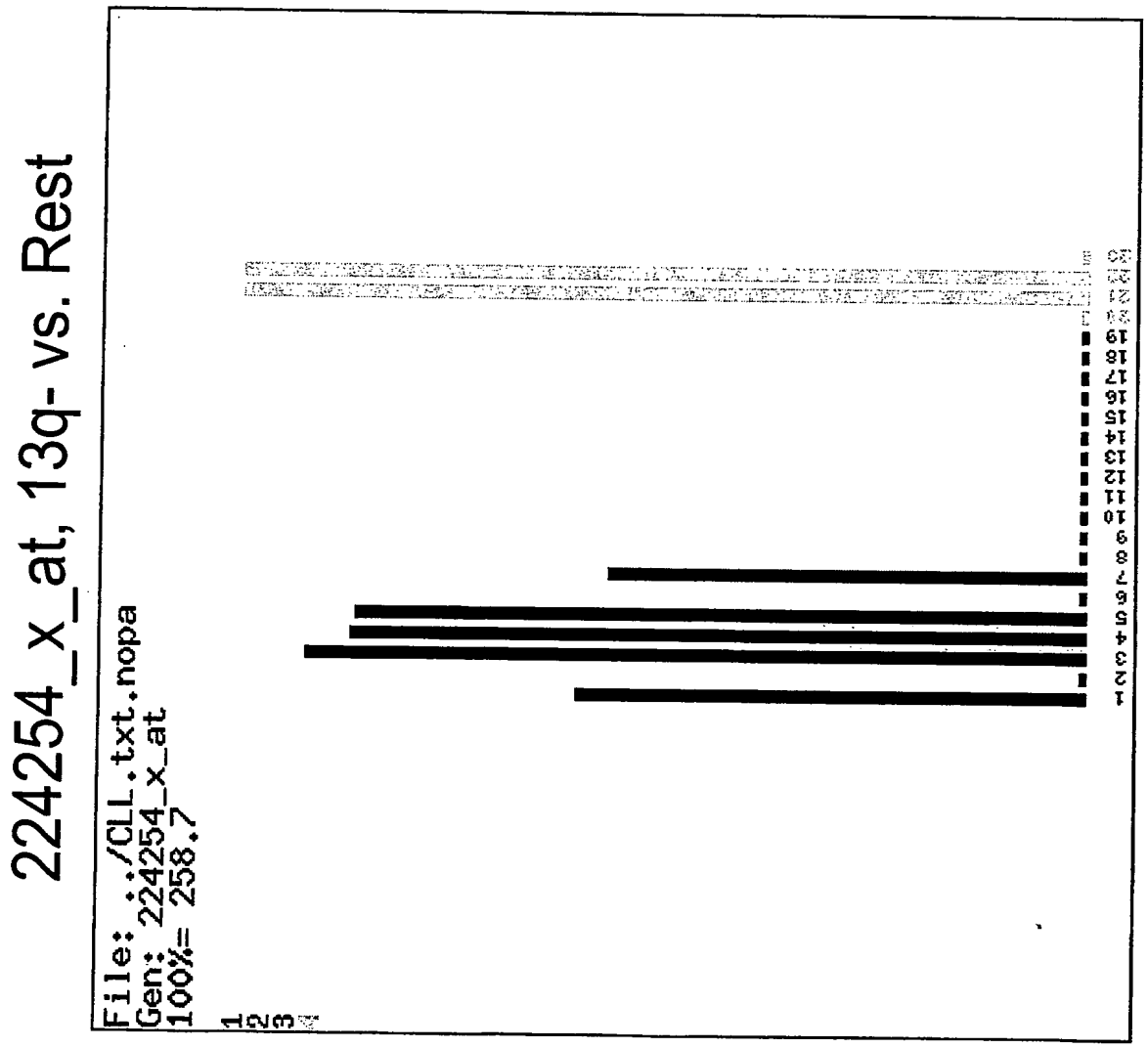

224254_x_at, 13q- vs. Rest
File: ../CLL.txt.nopa
Gen: 224254_x_at
100%= 258.7
1
2
3
+12
11q-
13q-
17p-
normal

Figure 385

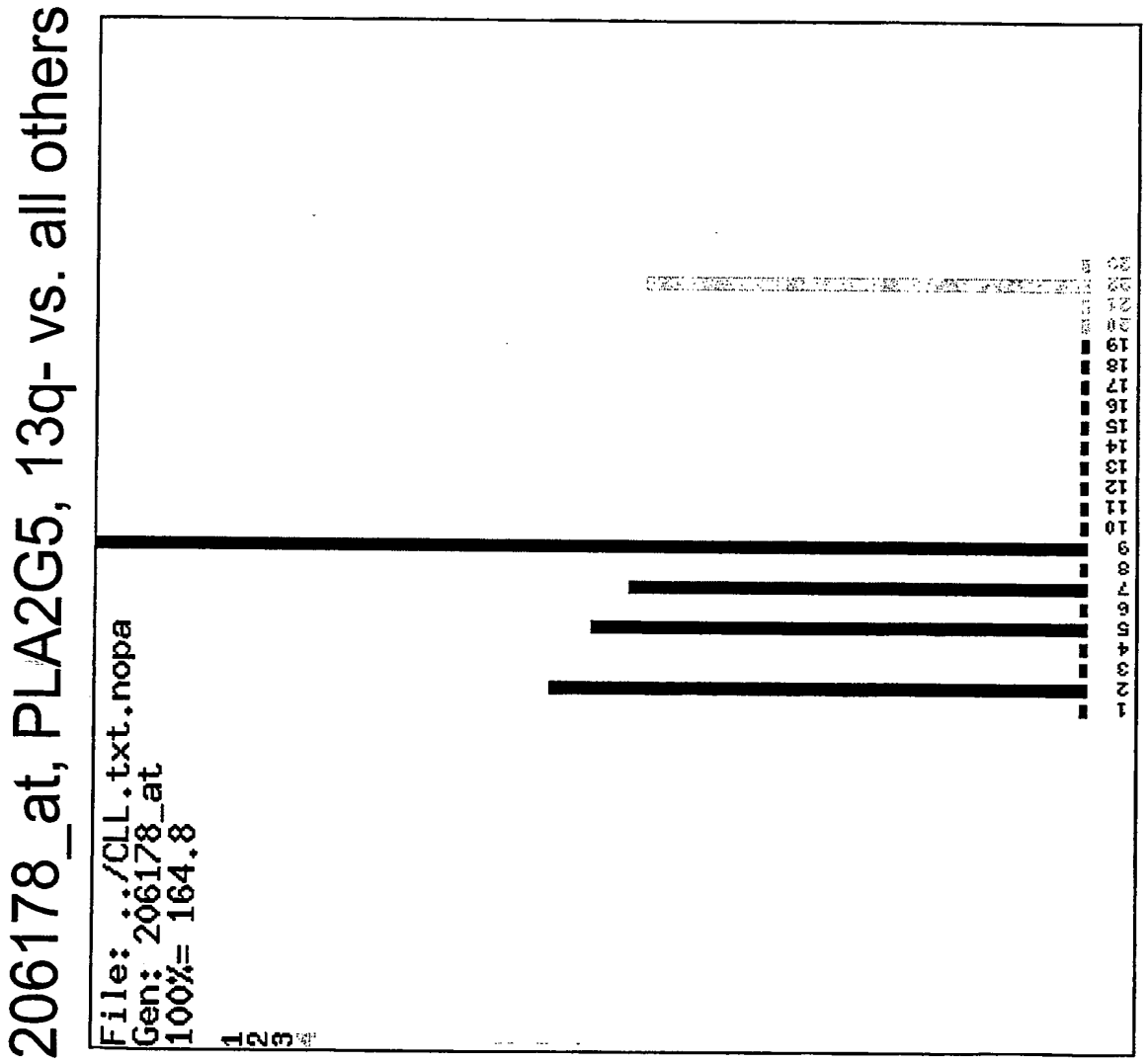

206178_at, PLA2G5, 13q- vs. all others
File: ../CLL.txt.nopa
Gen: 206178_at
100%= 164.8
+12
11q-
13q-
17p-
normal

Figure 386

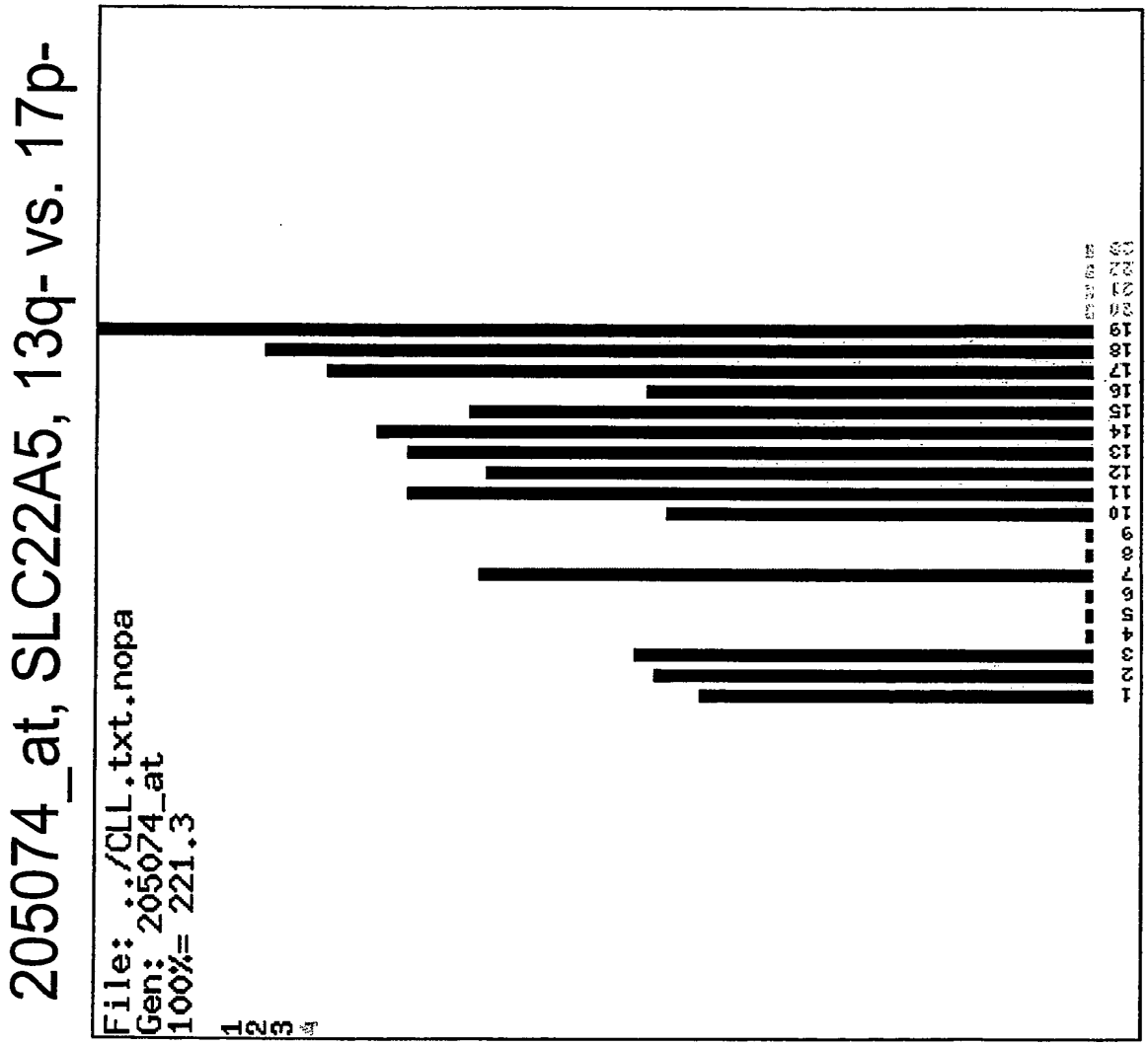

205074_at, SLC22A5, 13q- vs. 17p-
File: ../CLL.txt.nopa
Gen: 205074_at
100%= 221.3
1 2 3 4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
+12
11q-
13q-
17p-
normal

Figure 387

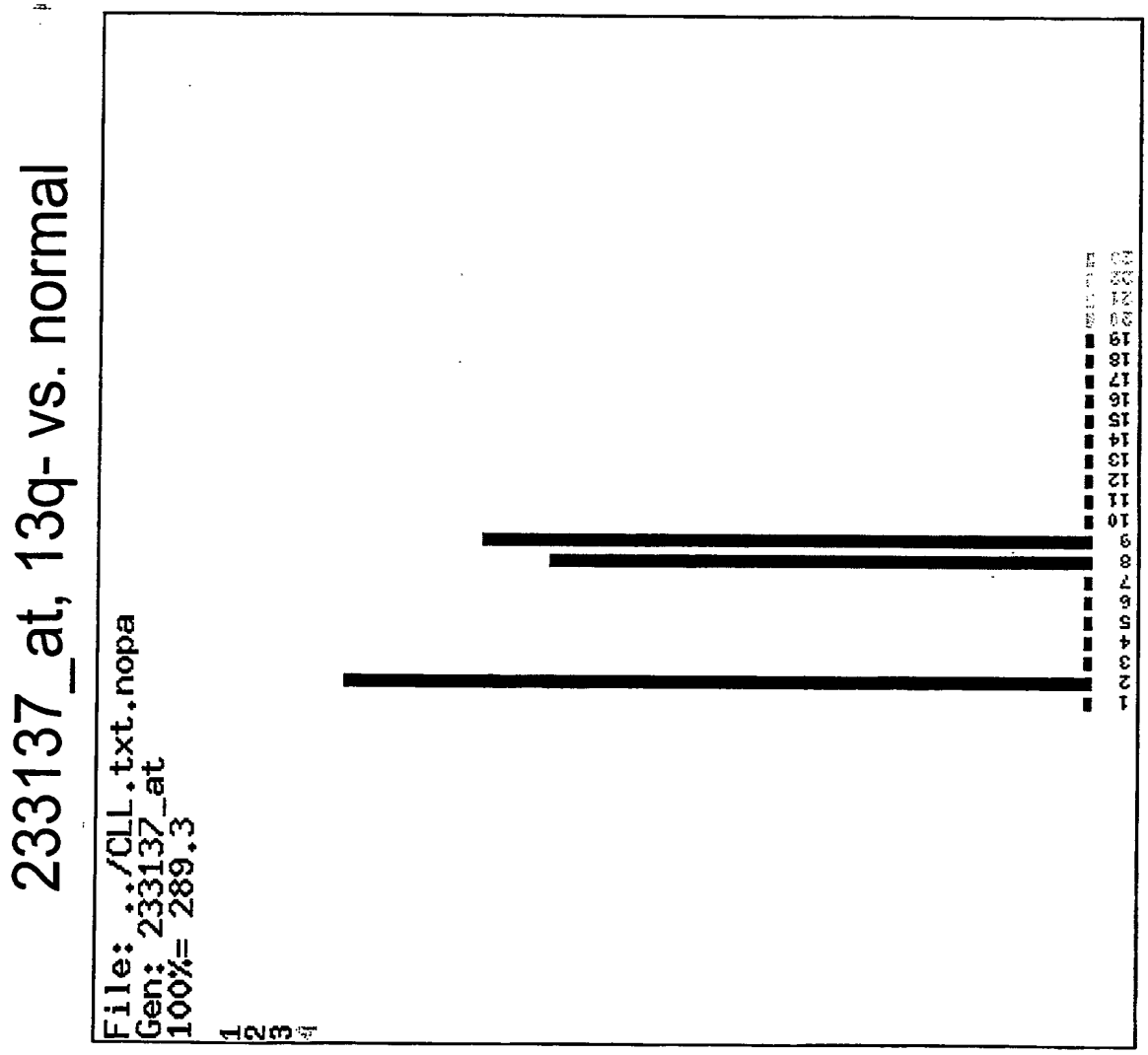

233137_at, 13q- vs. normal
File: ../CLL.txt.nopa
Gen: 233137_at
100%= 289.3
1 2 3 4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
+12 11q- 13q- 17p- normal

Figure 388

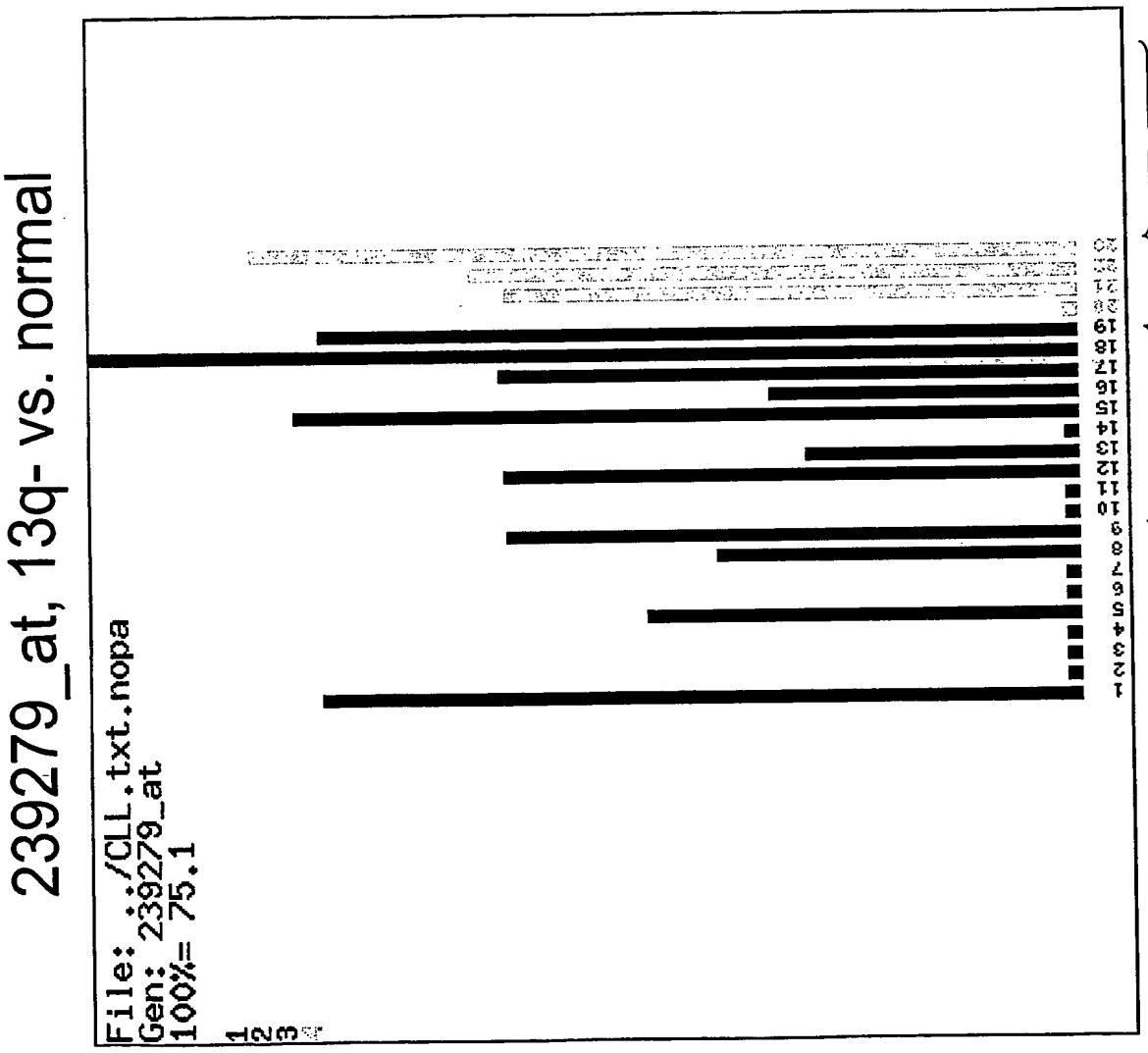

239279_at, 13q- vs. normal
File: ../CLL.txt.nopa
Gen: 239279_at
100%= 75.1
1 2 3
+12 11q- 13q- 17p- normal

Figure 389

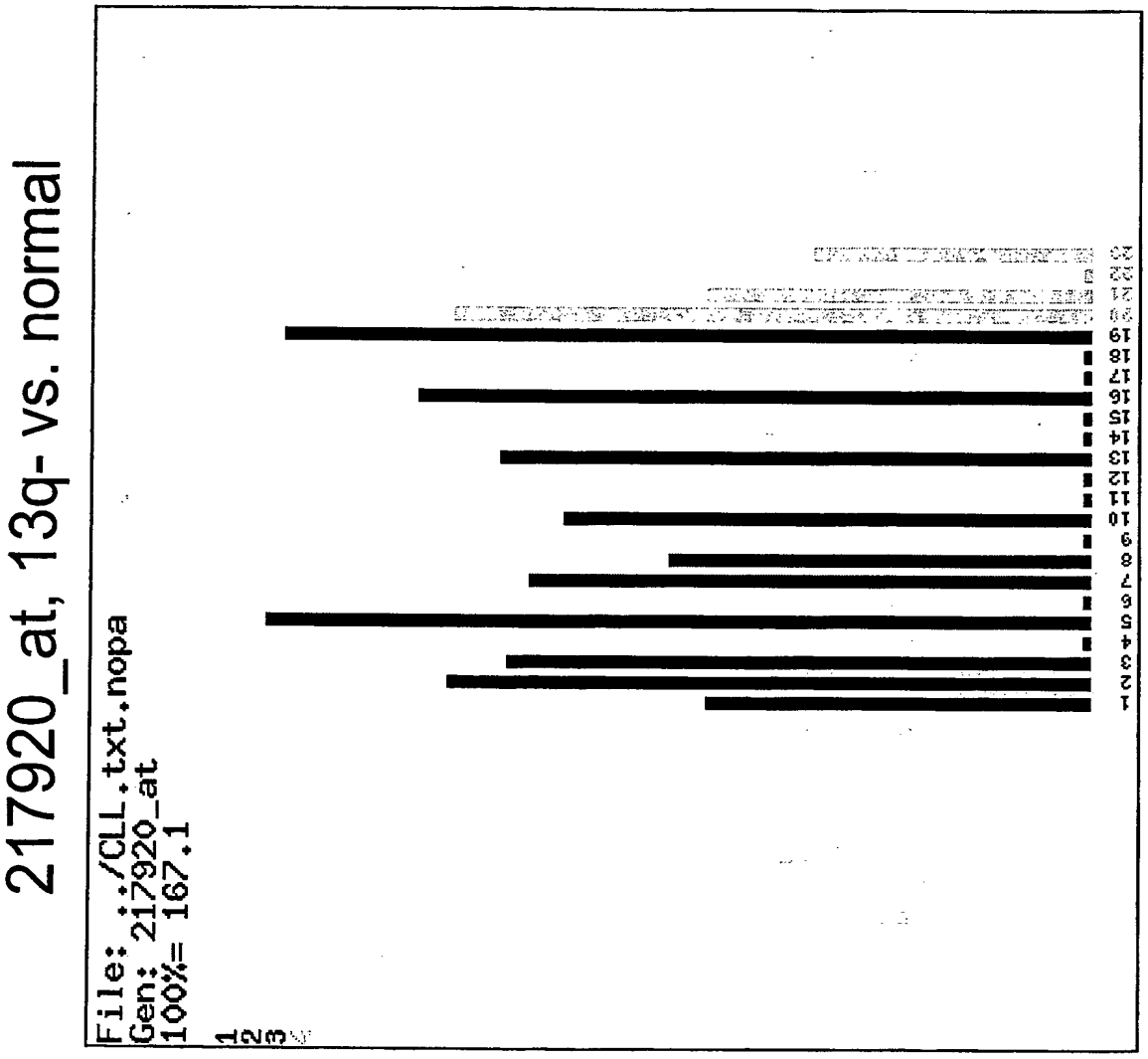

217920_at, 13q- vs. normal
File: ../CLL.txt.nopa
Gen: 217920_at
100%= 167.1
1 2 3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
+12
11q-
13q-
17p-
normal

Figure 390

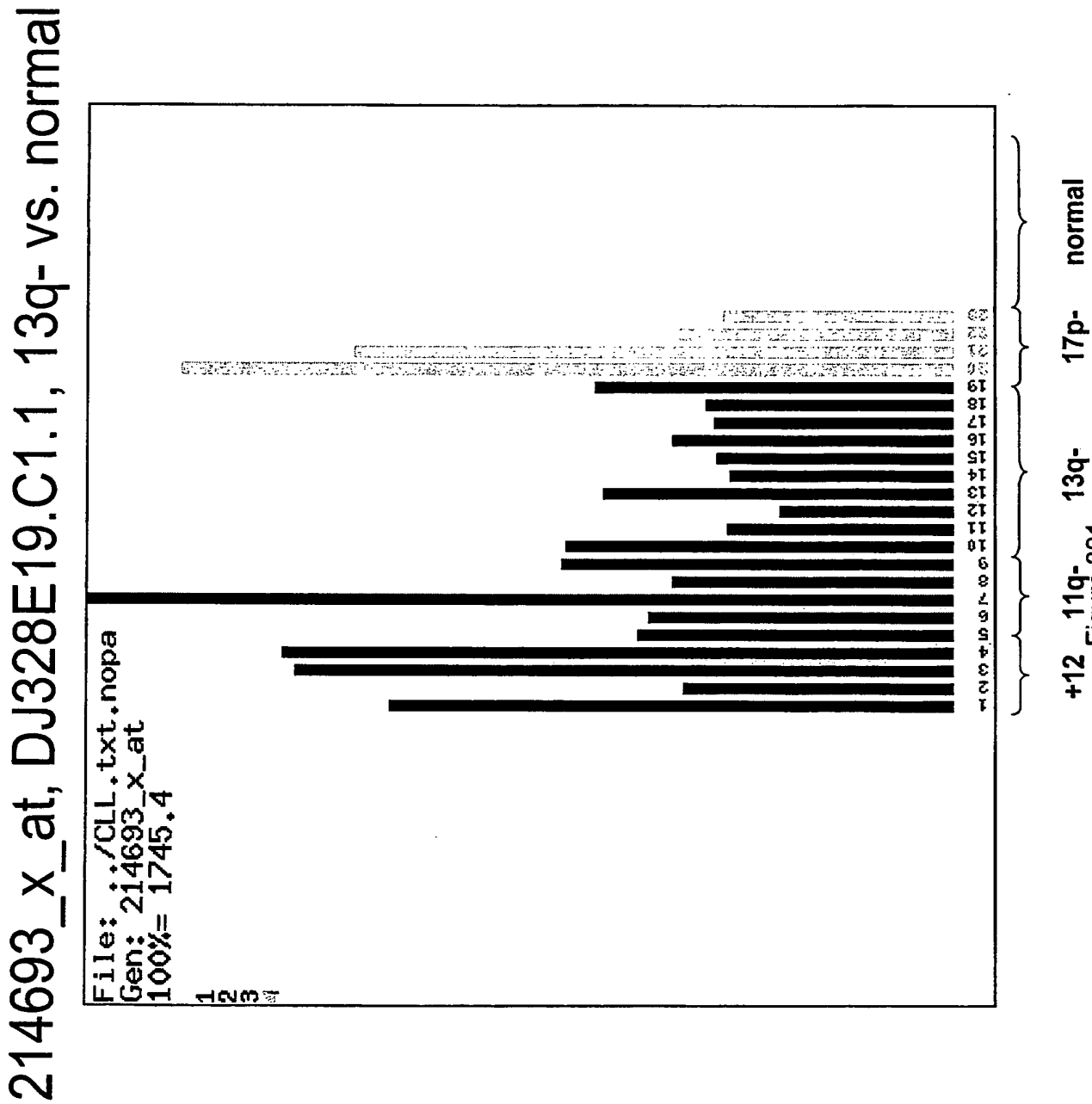

214693_x_at, DJ328E19.C1.1, 13q- vs. normal
File: ../CLL.txt.nopa
Gen: 214693_x_at
100%= 1745.4
1 2 3
+12
11q-
13q-
17p-
normal

Figure 391

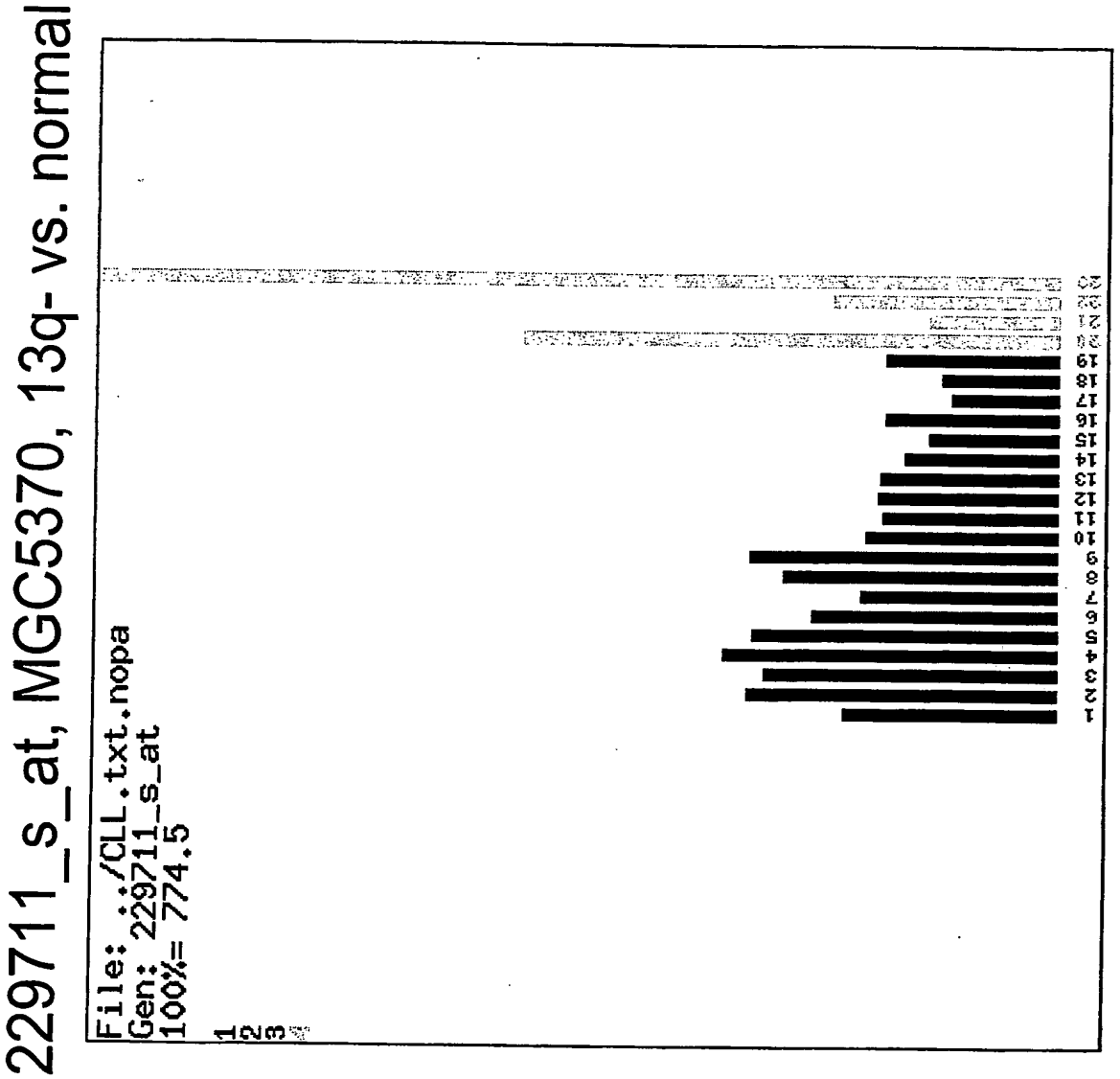

229711_s_at, MGC5370, 13q- vs. normal
File: ../CLL.txt.nopa
Gen: 229711_s_at
100%= 774.5
1 2 3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
+12 11q- 13q- 17p- normal

Figure 392

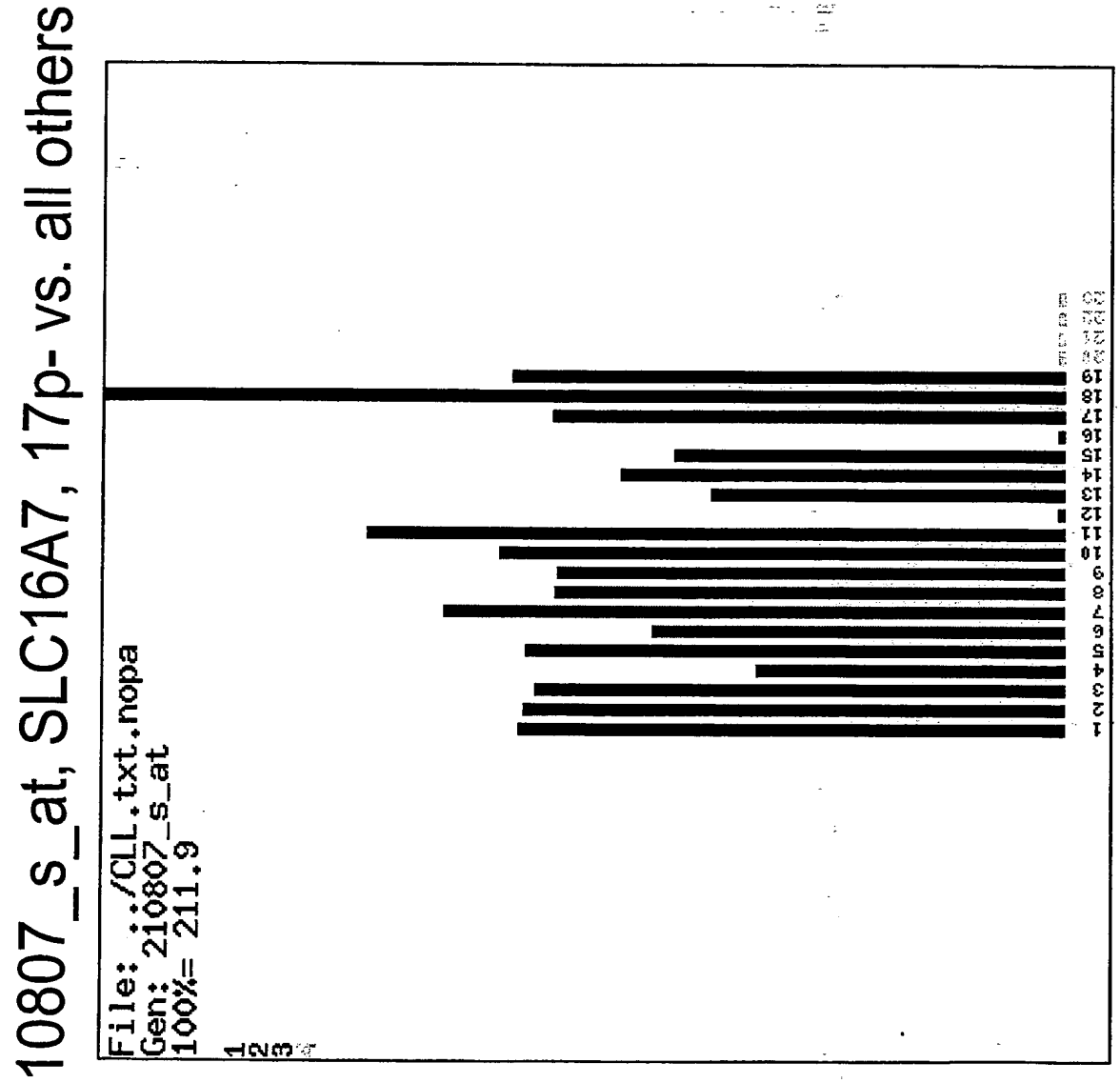

210807_s_at, SLC16A7, 17p- vs. all others
File: ../CLL.txt.nopa
Gen: 210807_s_at
100%= 211.9
1 2 3
+12 11q- 13q- 17p- normal

Figure 393

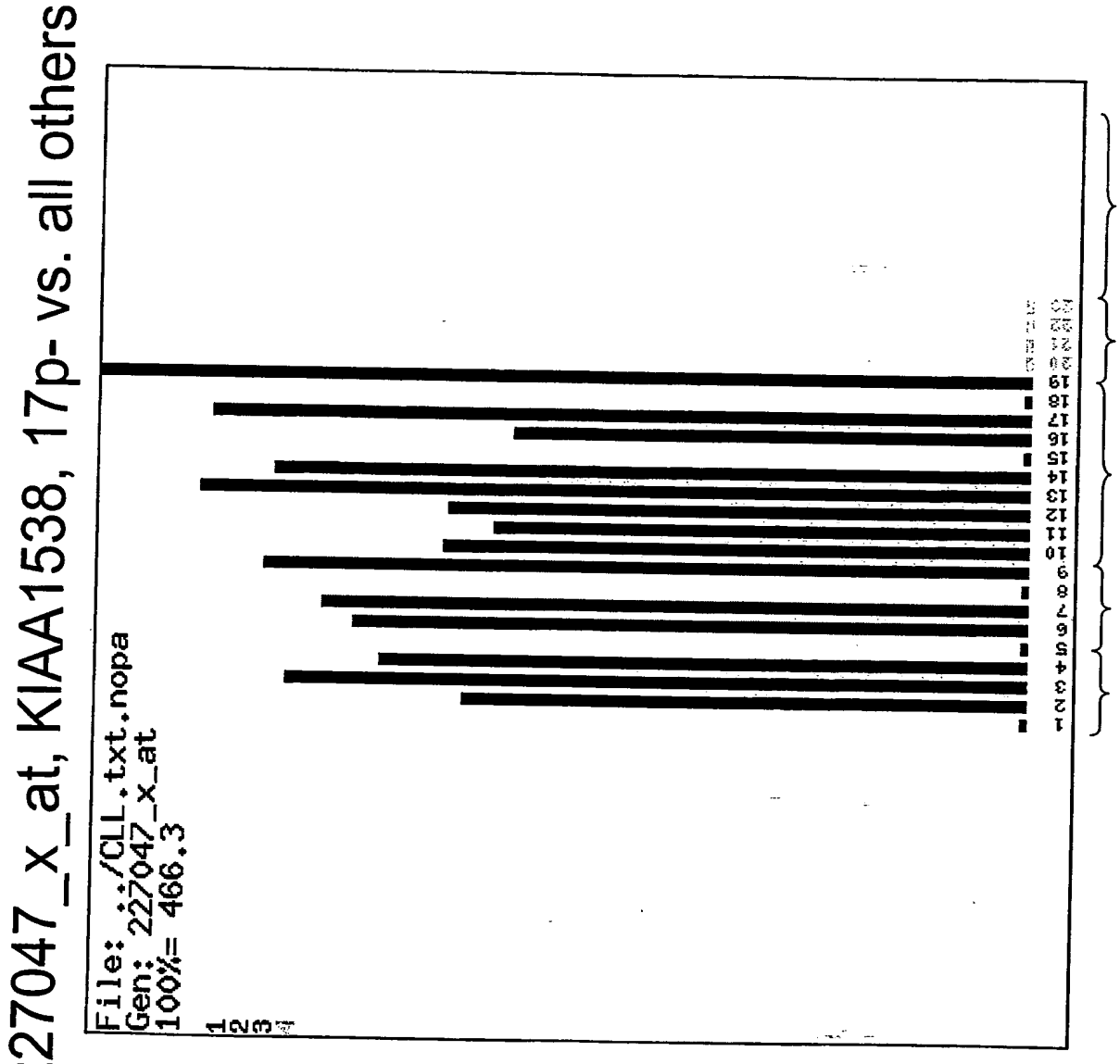

227047_x_at, KIAA1538, 17p- vs. all others
File: ../CLL.txt.nopa
Gen: 227047_x_at
100%= 466.3
1 2 3
+12
11q-
13q-
17p-
normal

Figure 394

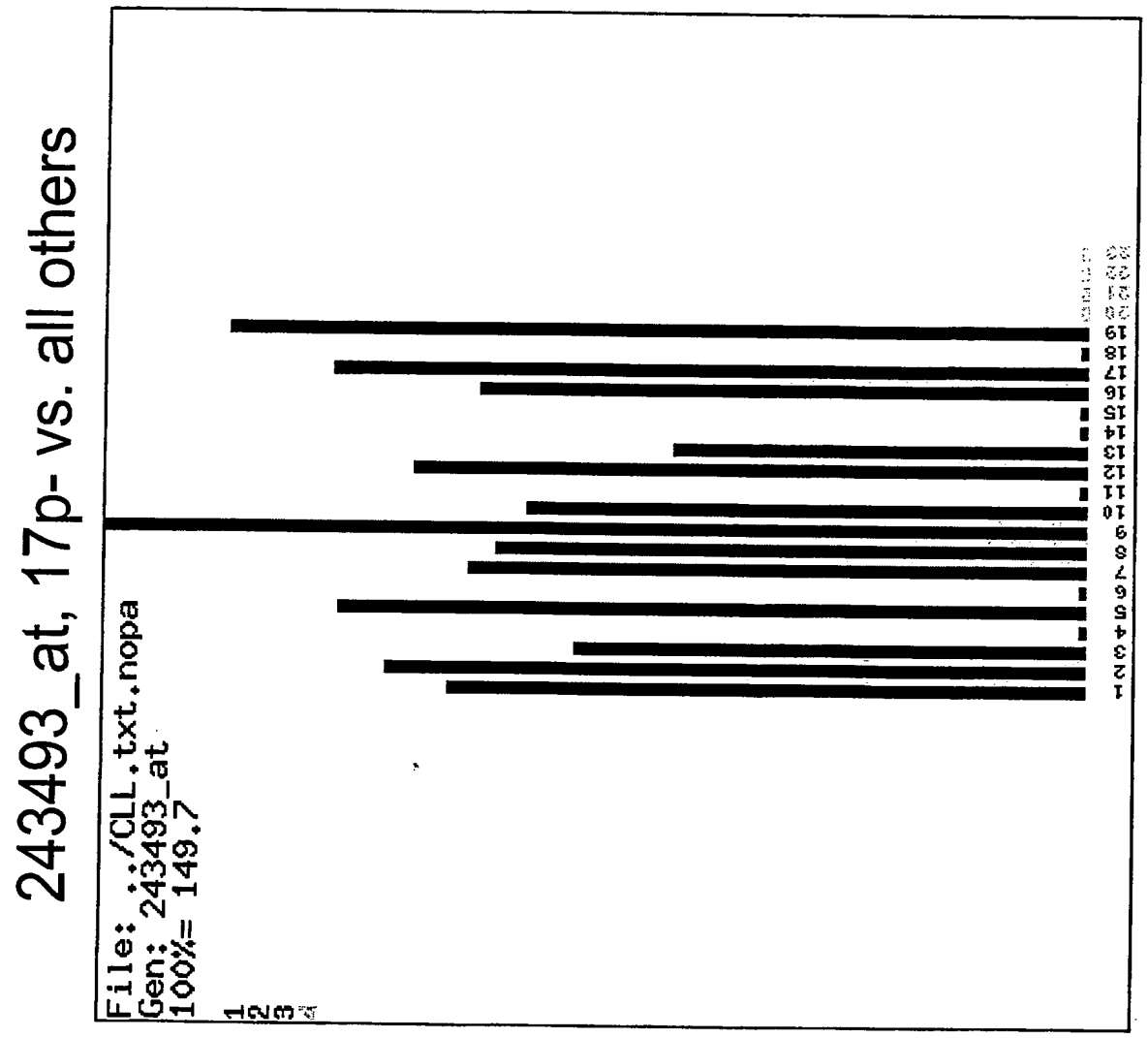

243493_at, 17p- vs. all others
File: ../CLL.txt.nopa
Gen: 243493_at
100%= 149.7
1 2 3 4
+12 11q- 13q- 17p- normal

Figure 395

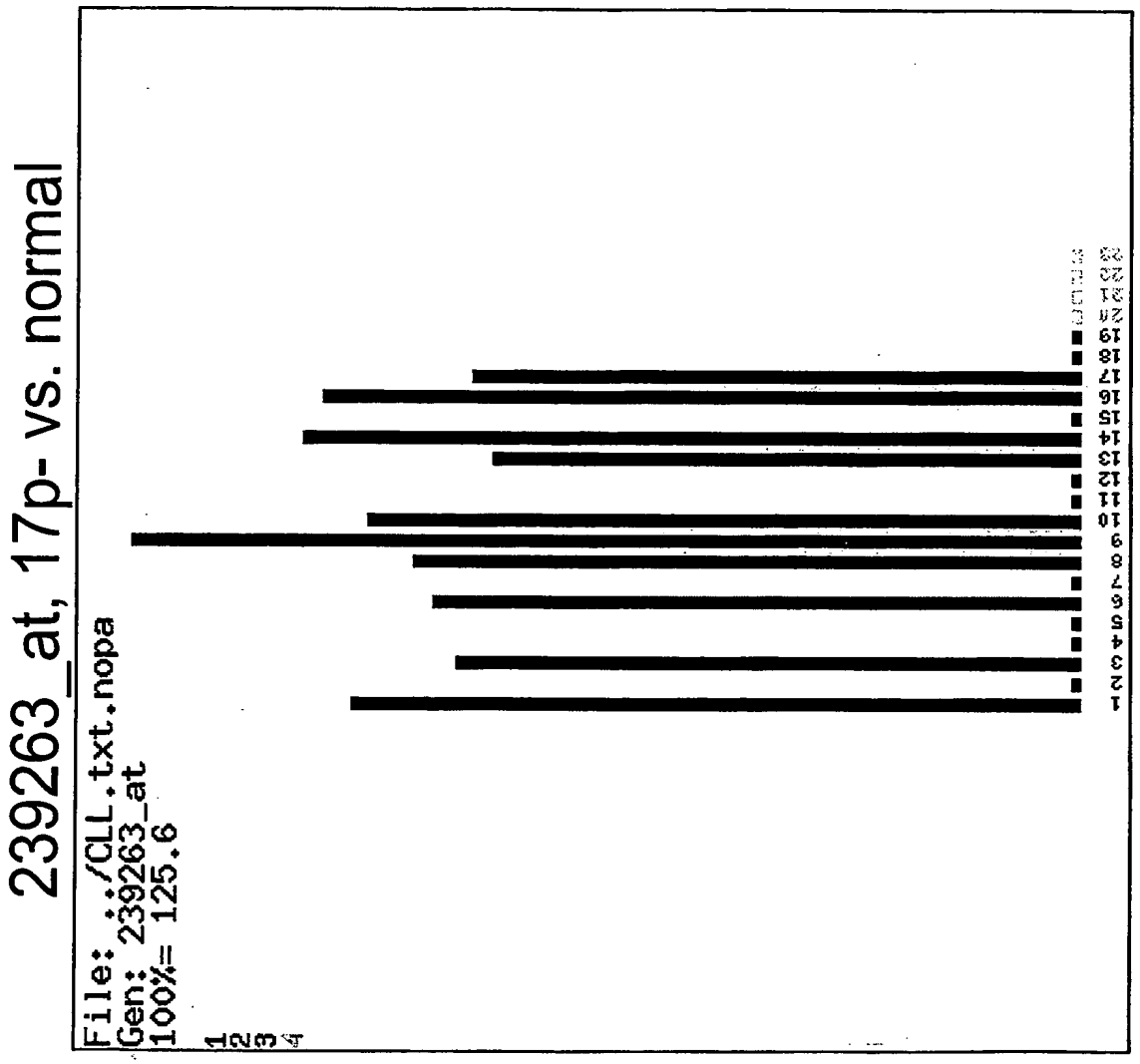

239263_at, 17p- vs. normal
File: ../CLL.txt.nopa
Gen: 239263_at
100%= 125.6
1 2 3 4
+12
11q-
13q-
17p-
normal

Figure 396

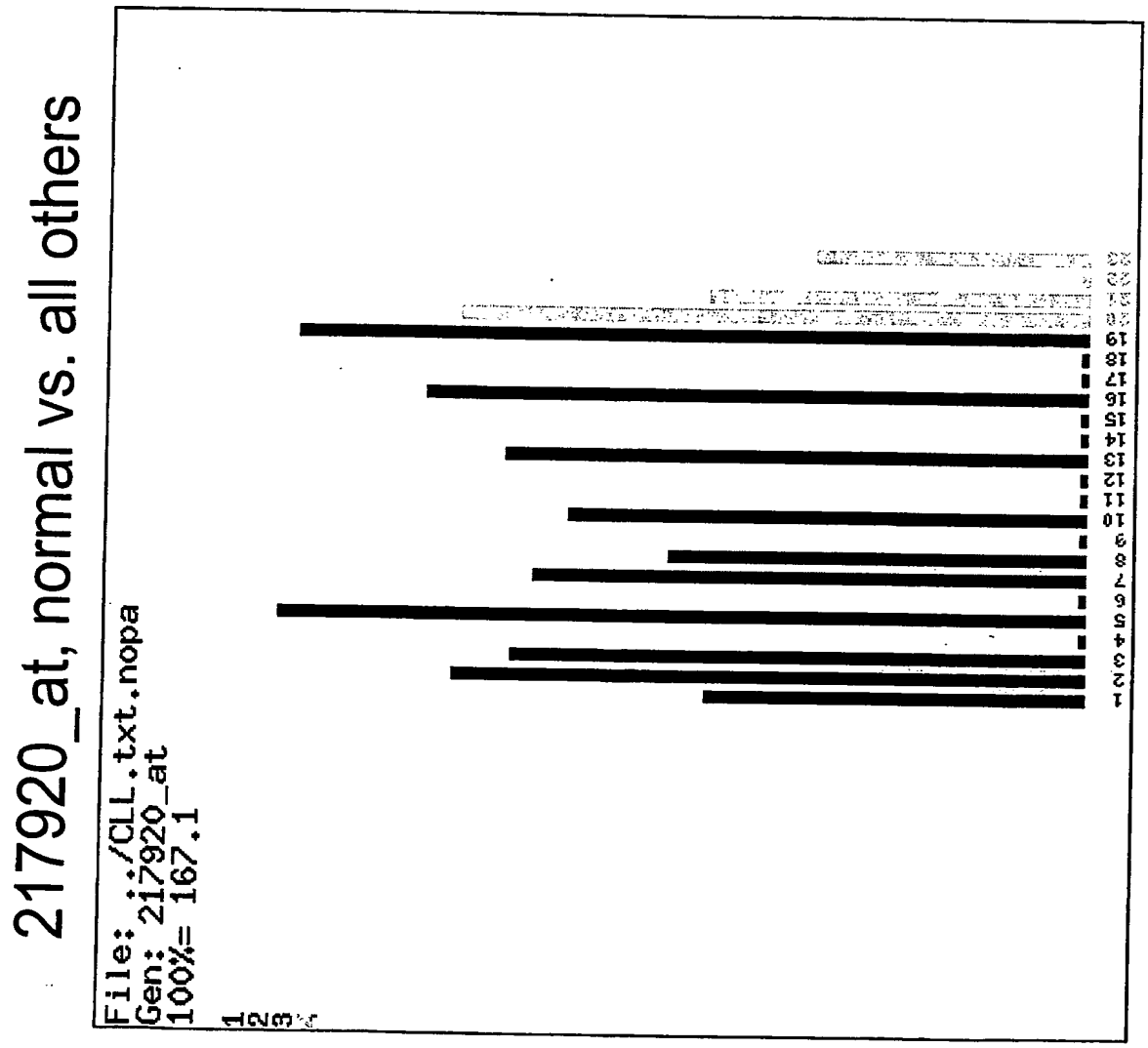

217920_at, normal vs. all others
File: ../CLL.txt.nopa
Gen: 217920_at
100%= 167.1
+12
11q-
13q-
17p-
normal

Figure 397

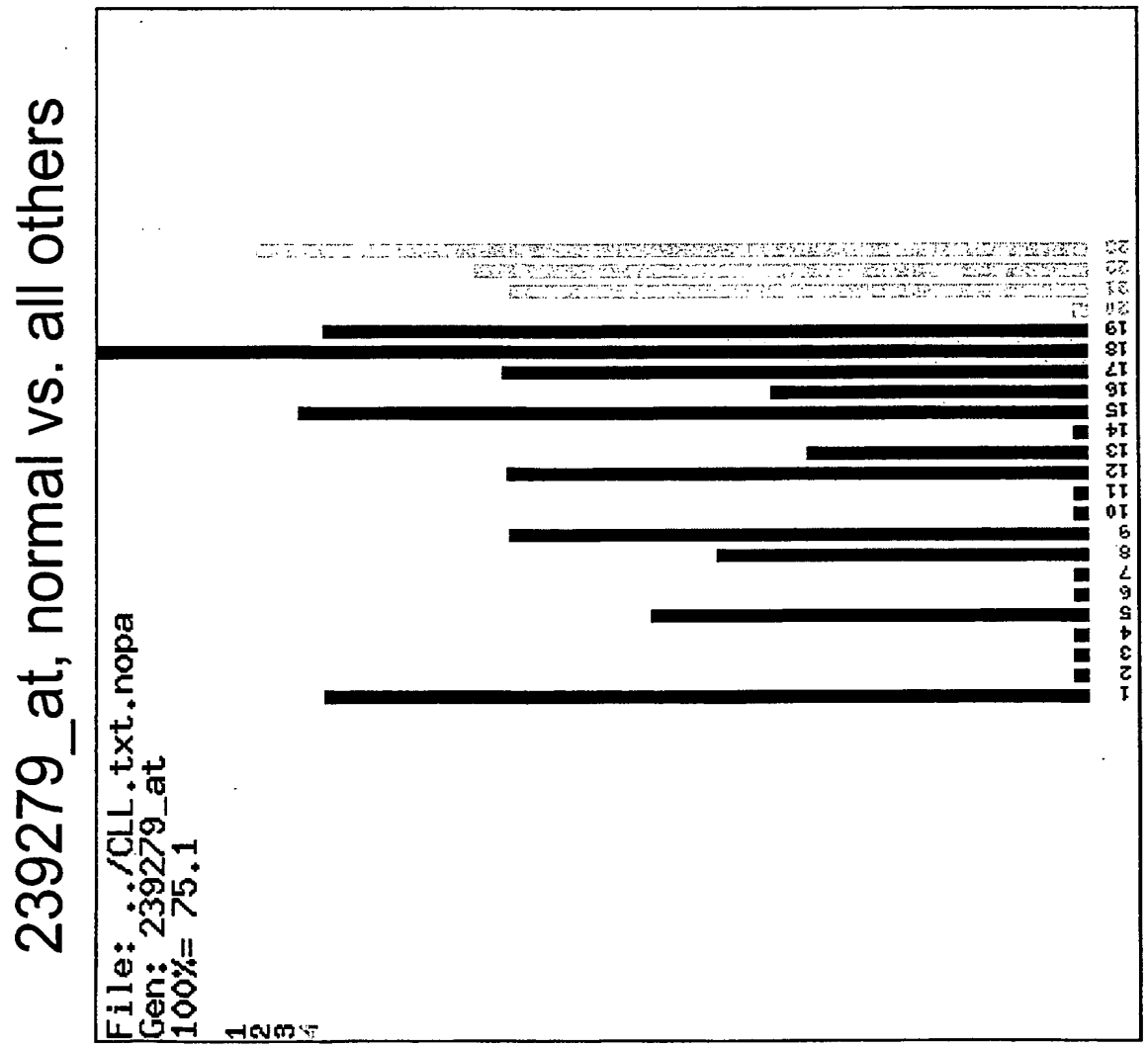

239279_at, normal vs. all others
File: ../CLL.txt.nopa
Gen: 239279_at
100%= 75.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
+12
11q-
13q-
17p-
normal

Figure 398

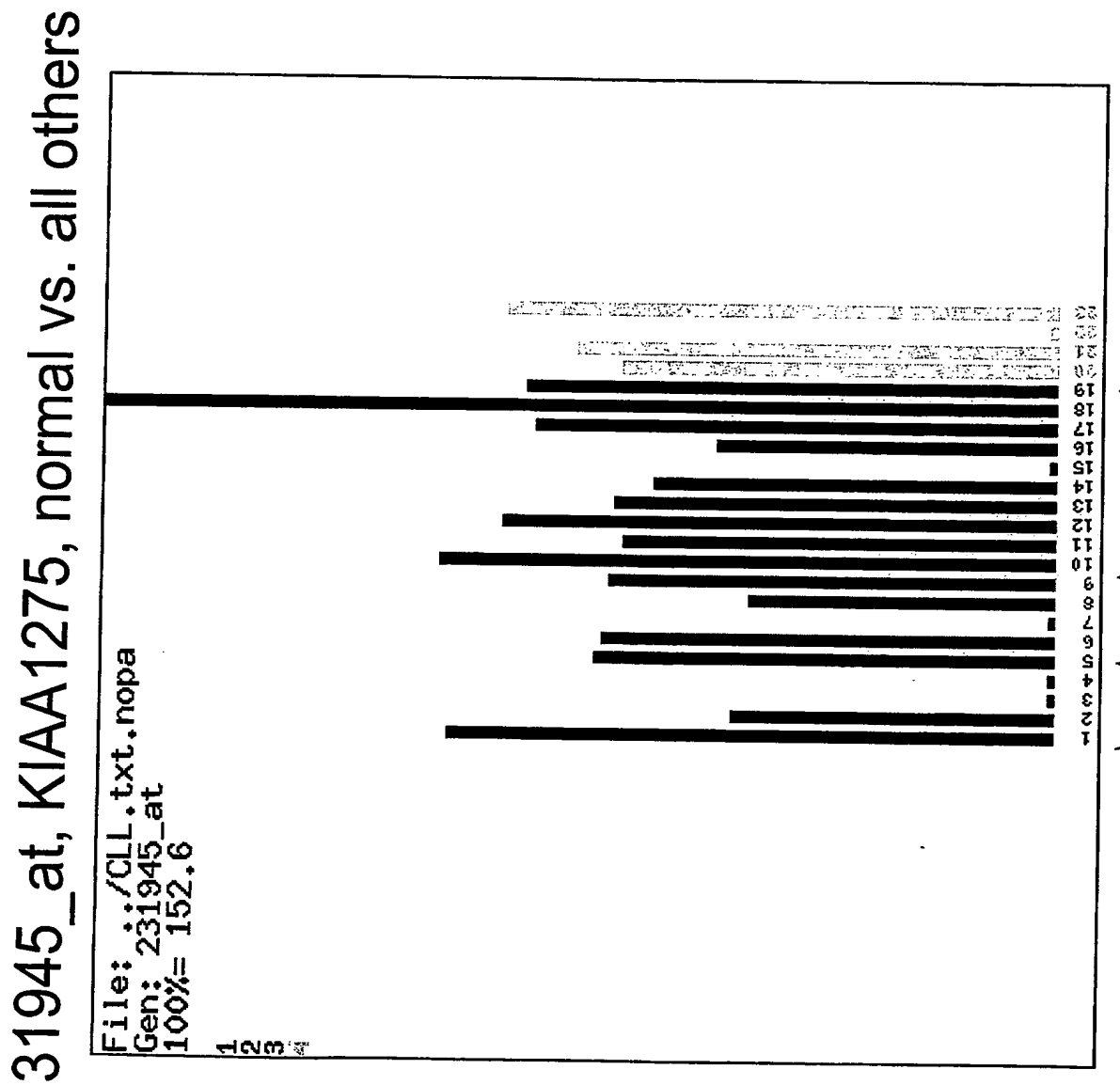

231945_at, KIAA1275, normal vs. all others
File: ../CLL.txt.nopa
Gen: 231945_at
100%= 152.6
1 2 3 4
+12 11q- 13q- 17p- normal

Figure 399

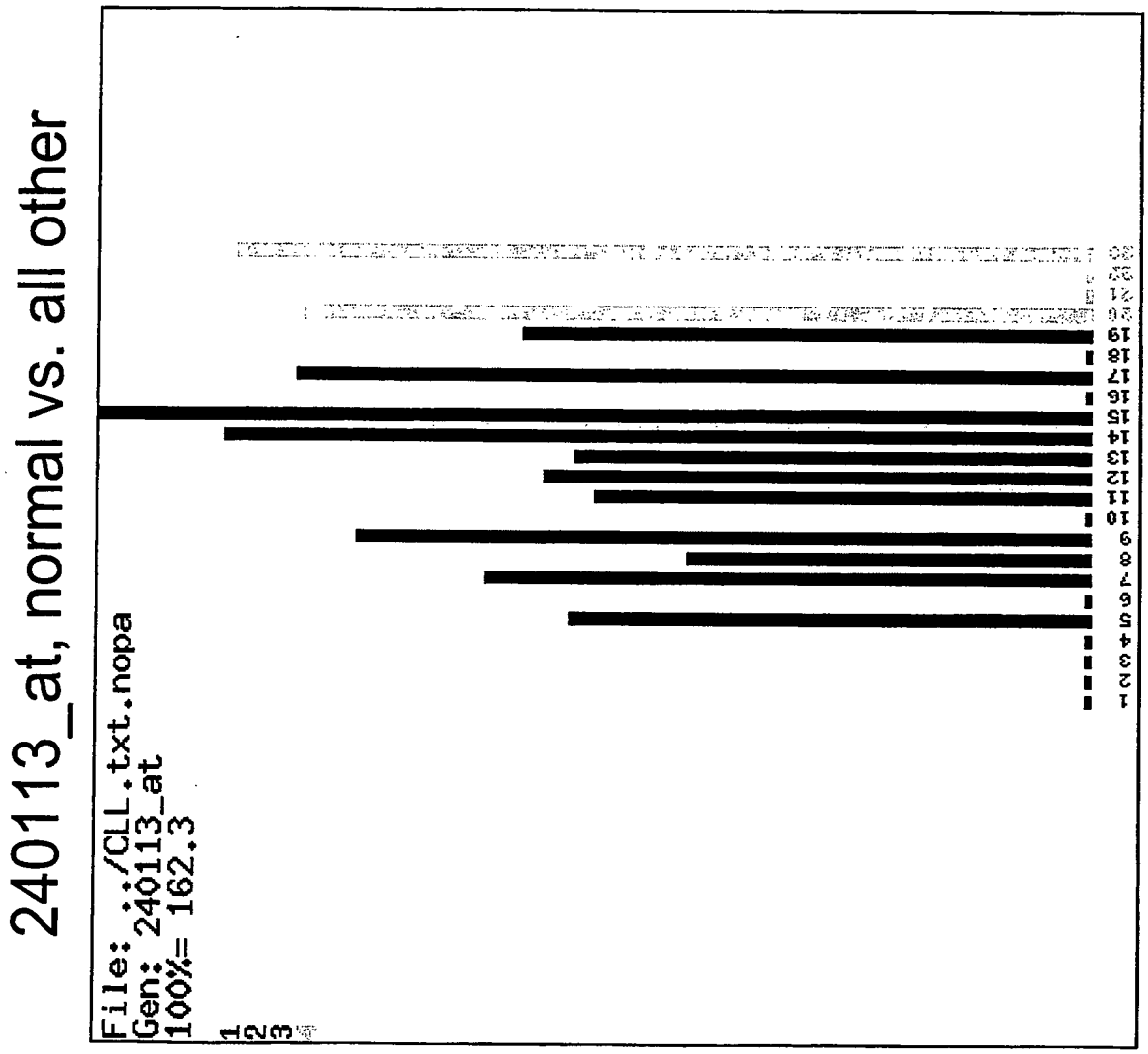

240113_at, normal vs. all other
File: ../CLL.txt.nopa
Gen: 240113_at
100%= 162.3
+12
11q-
13q-
17p-
normal

Figure 400

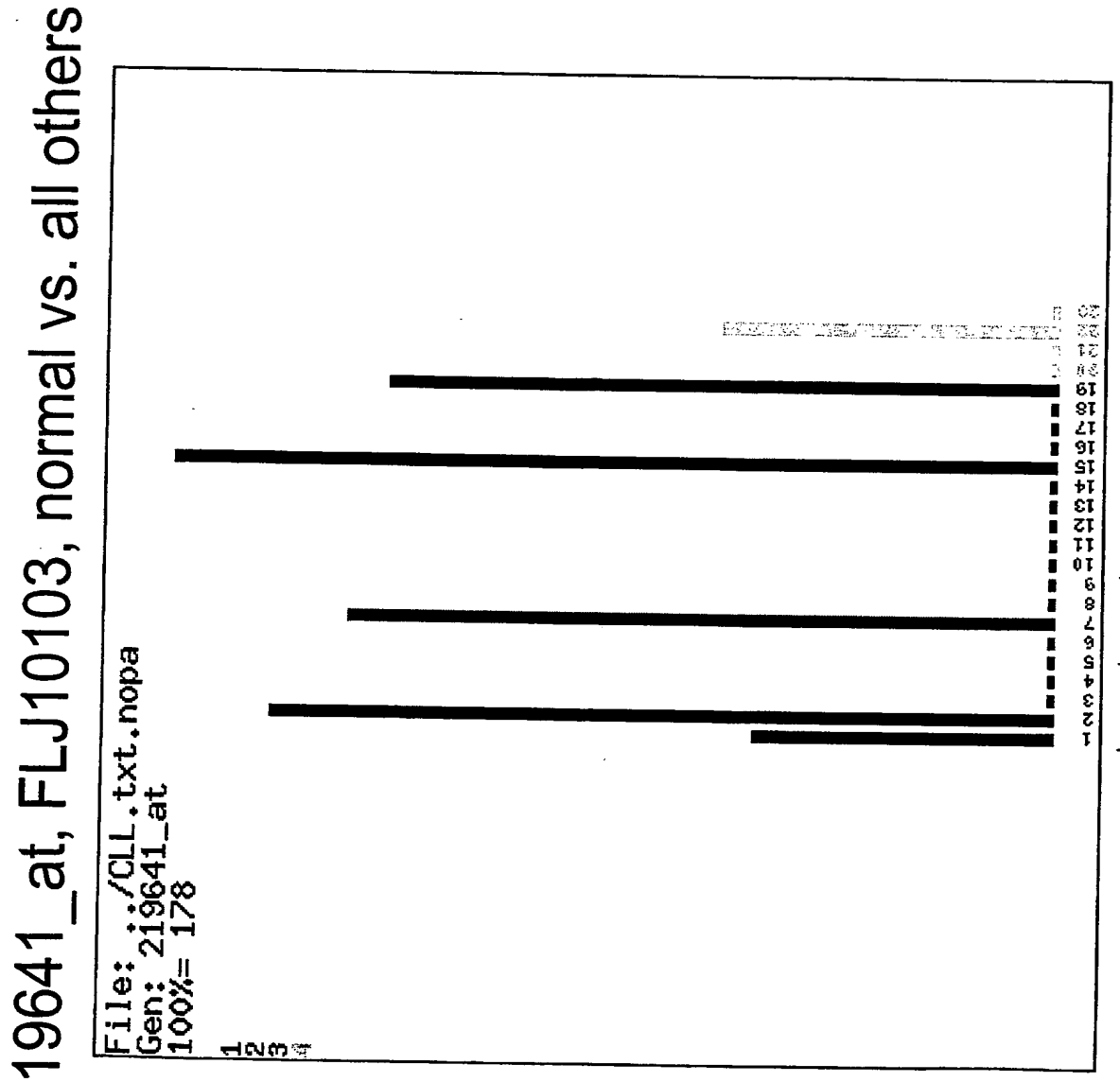

219641_at, FLJ10103, normal vs. all others
File: ../CLL.txt.nopa
Gen: 219641_at
100%= 178
1
2
3
4
+12
11q-
13q-
17p-
normal

Figure 401

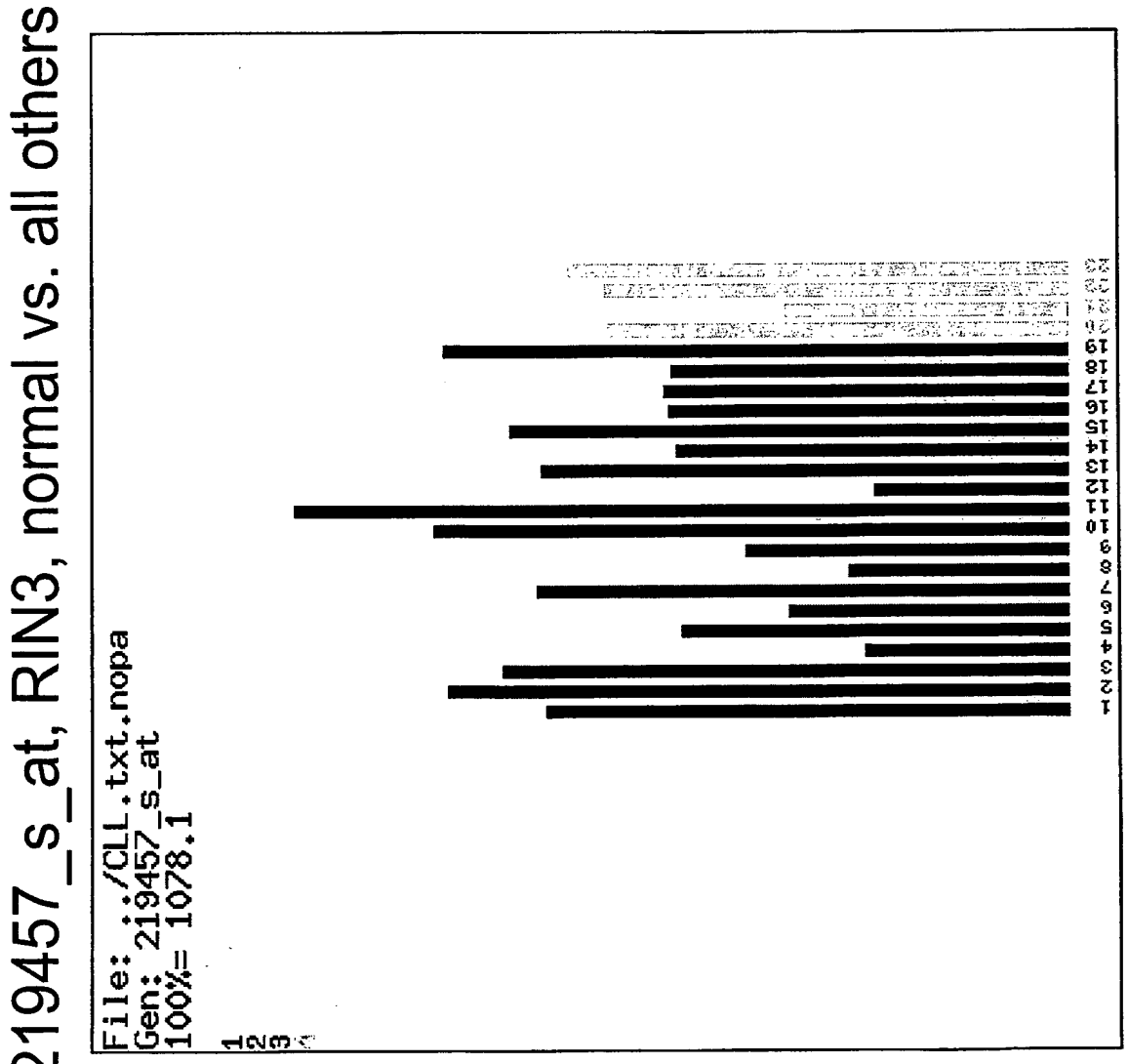

219457_s_at, RIN3, normal vs. all others
File: ../CLL.txt.nopa
Gen: 219457_s_at
100%= 1078.1
1
2
3
+12
11q-
13q-
17p-
normal

Figure 402

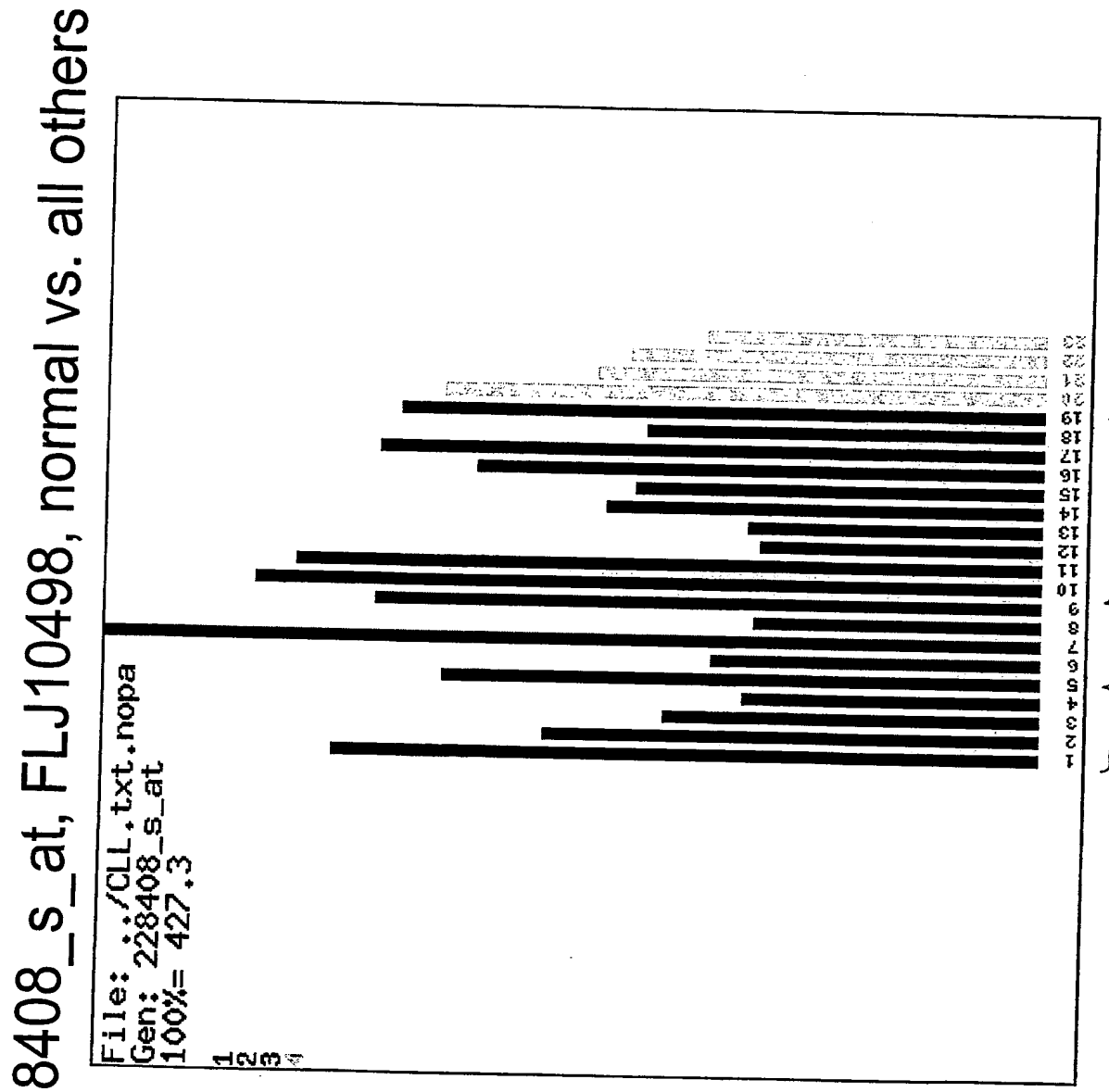

228408_s_at, FLJ10498, normal vs. all others
File: ../CLL.txt.nopa
Gen: 228408_s_at
100%= 427.3
1
2
3
4
+12
11q-
13q-
17p-
normal

Figure 403

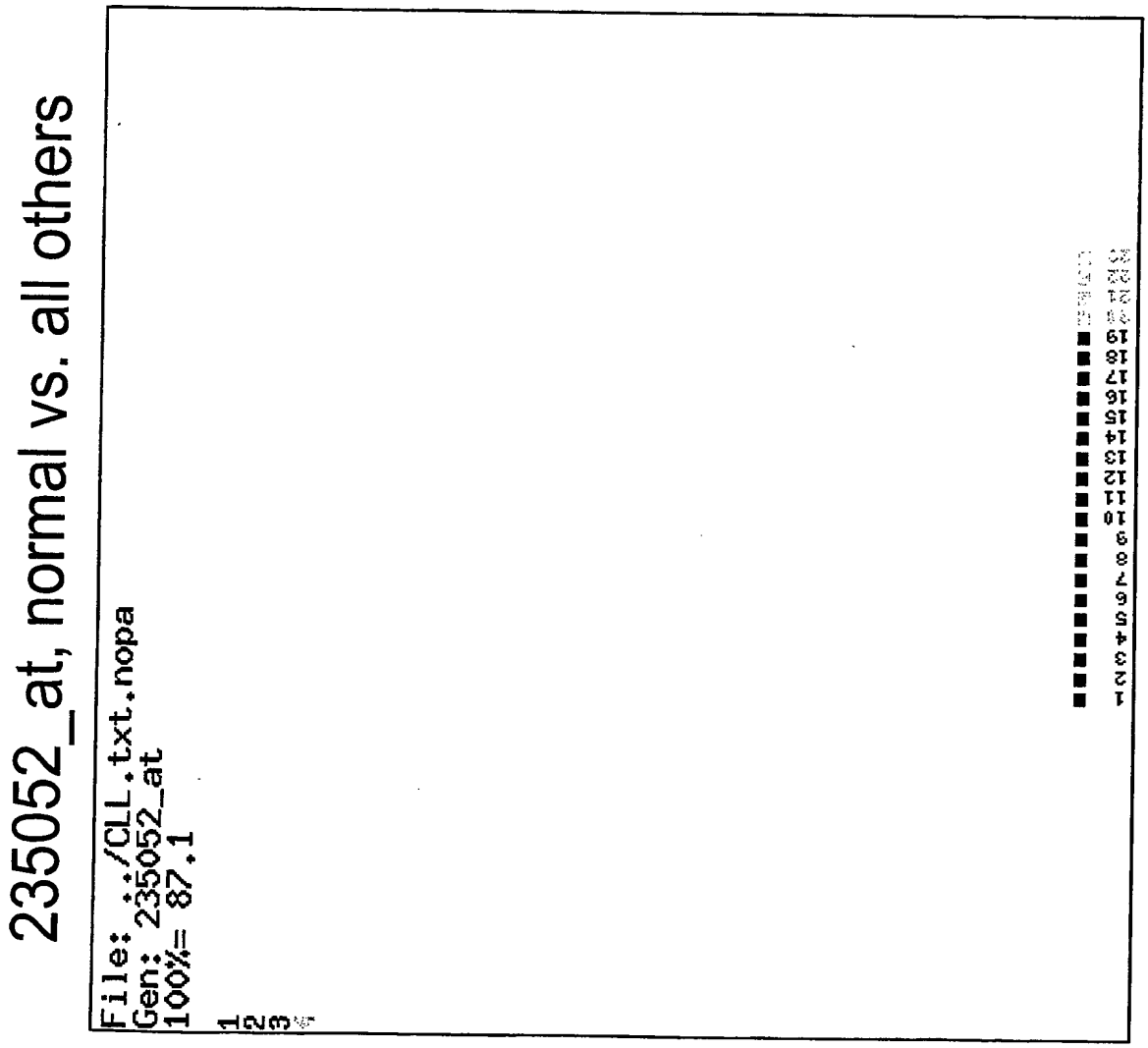

235052_at, normal vs. all others
File: ../CLL.txt.nopa
Gen: 235052_at
100%= 87.1
1 2 3
+12 11q- 13q- 17p- normal

Figure 404

219013_at, FLJ21634, ALL vs. all others

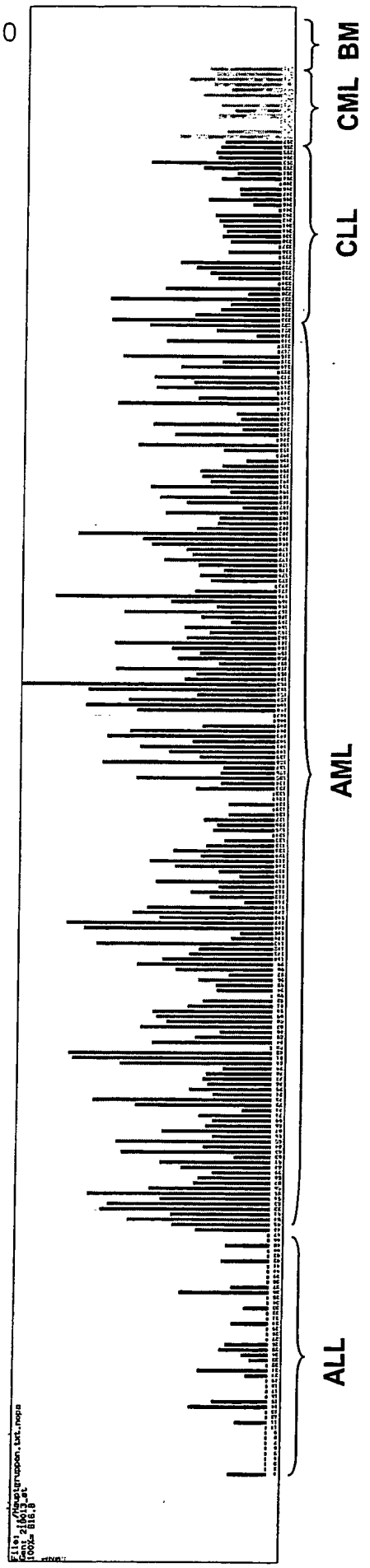


Figure 405

243362_s_at, LEF1, ALL vs. all others

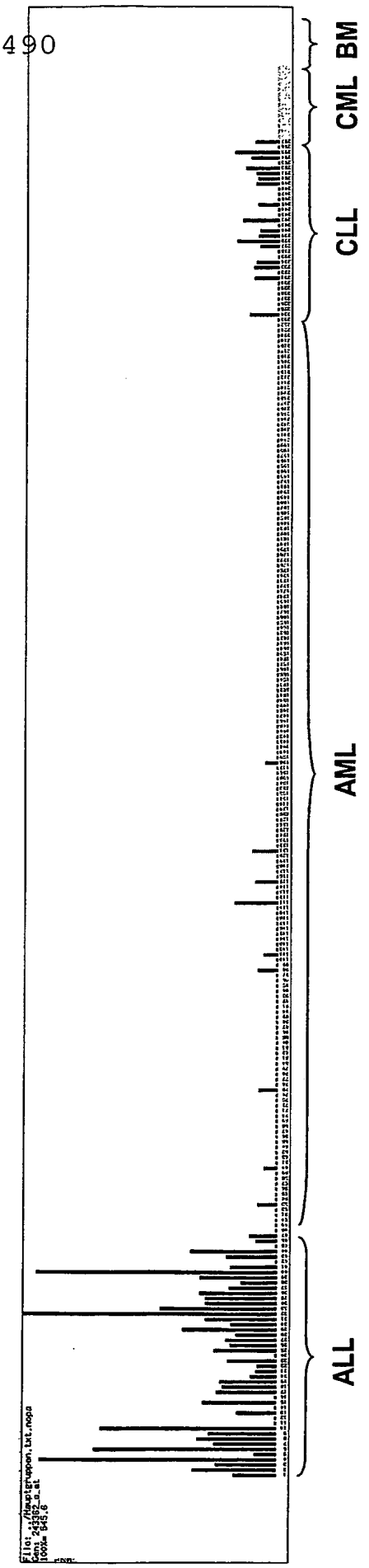


Figure 406

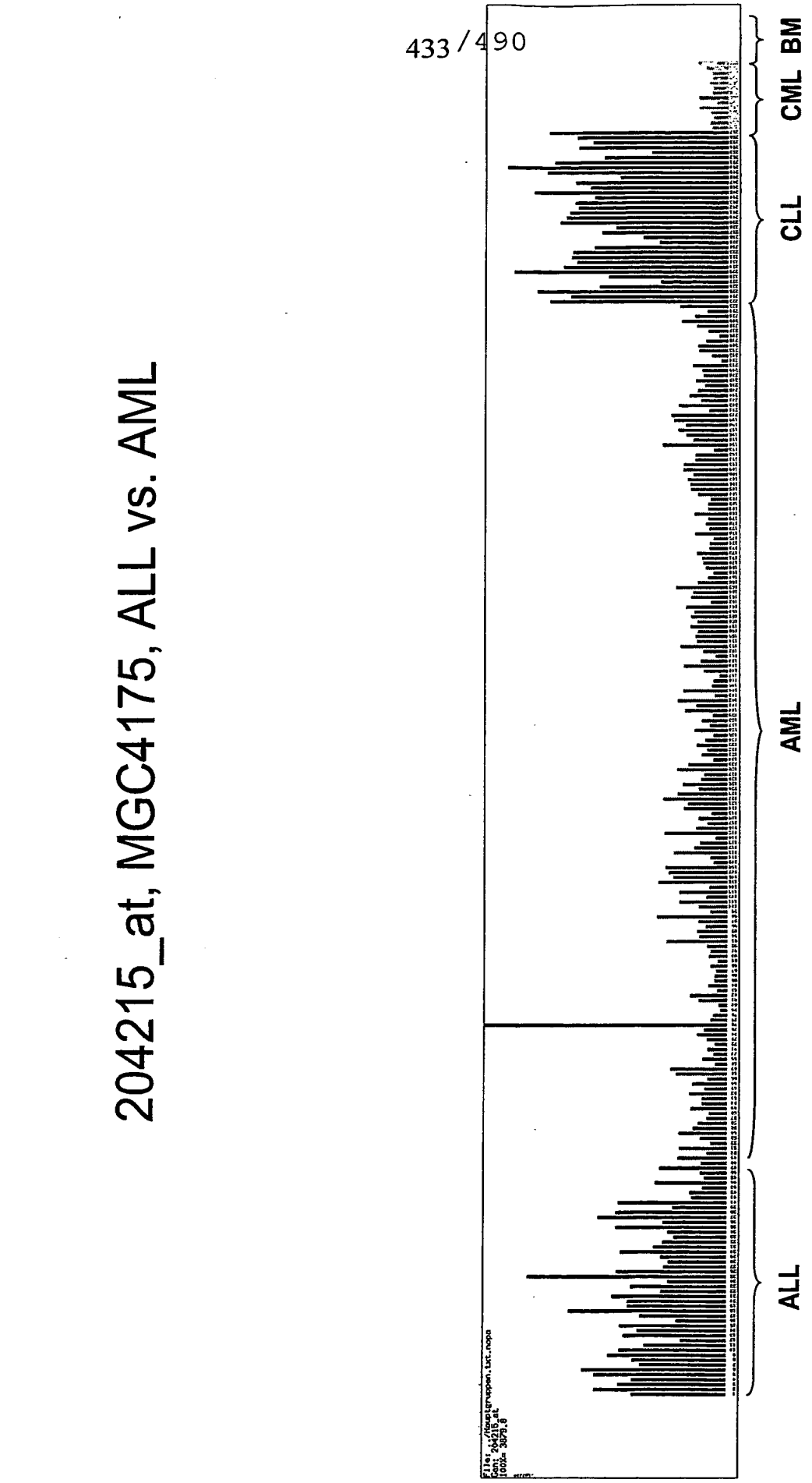


Figure 407

225927_at, MAP3K1, ALL vs. CLL

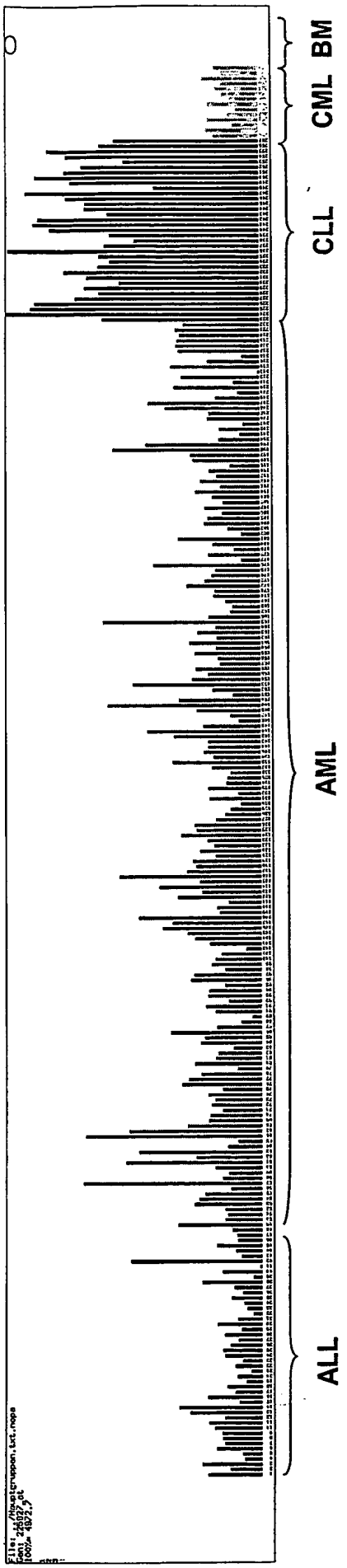


Figure 408

BNSDOCID: <WO_____03039443A2_I_>

205557_at, BPI, ALL vs. CML

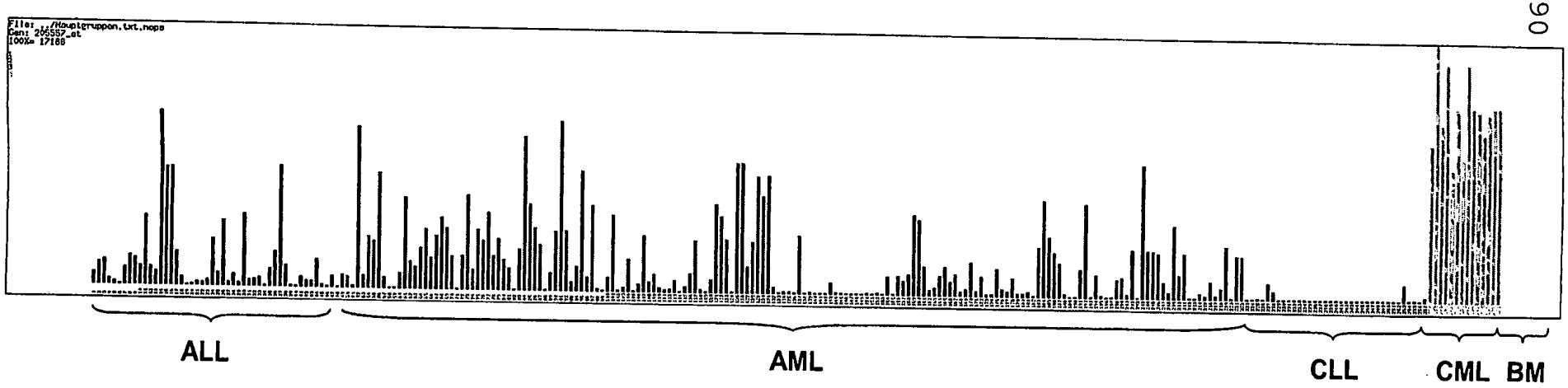


Figure 409

BNSDOCID: <WO_____03039443A2_I_>

223280_x_at, MS4A6A, ALL vs. normal BM

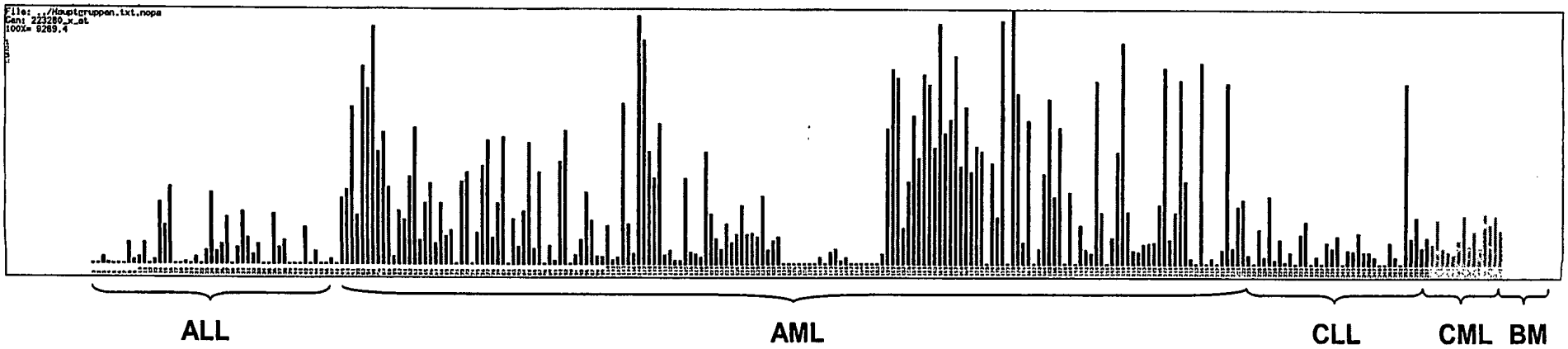


Figure 410

224356_x_at, MS4A6A, ALL vs. normal BM

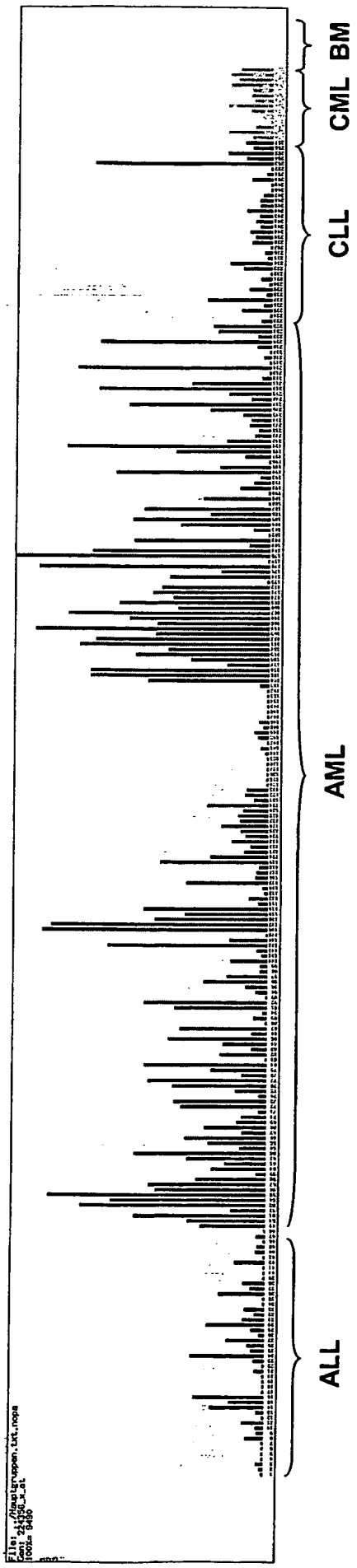


Figure 411

218916_at, FLJ23436, ALL vs. normal BM

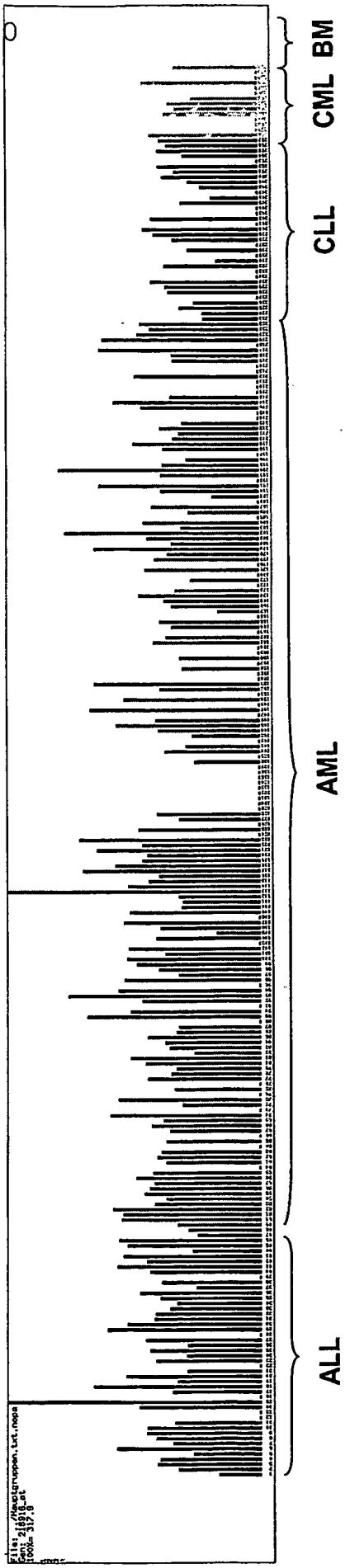


Figure 412

221969_at, PAX5, AML vs. all others

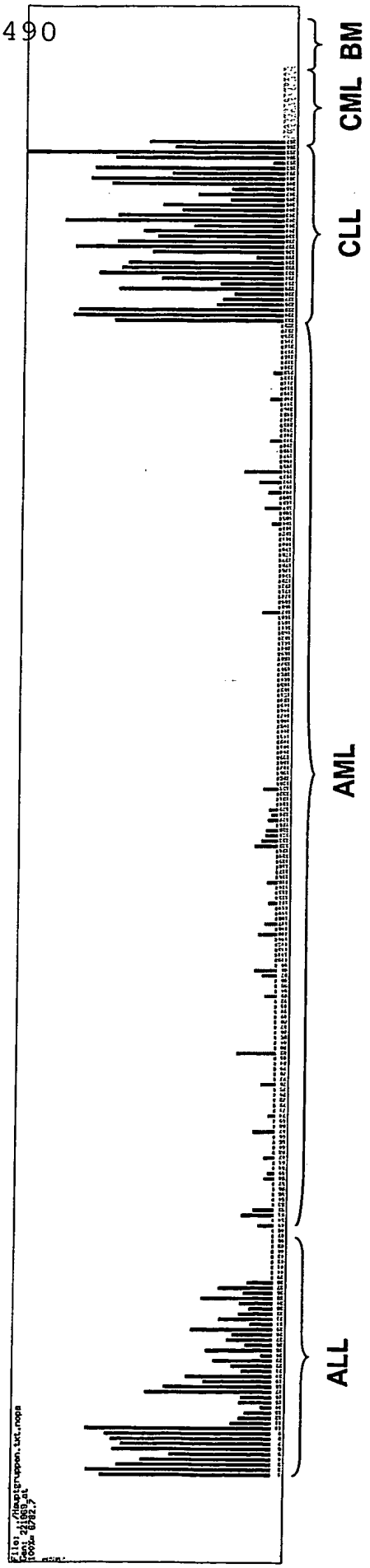


Figure 413

206398_s_at, CD19, AML vs. Rest

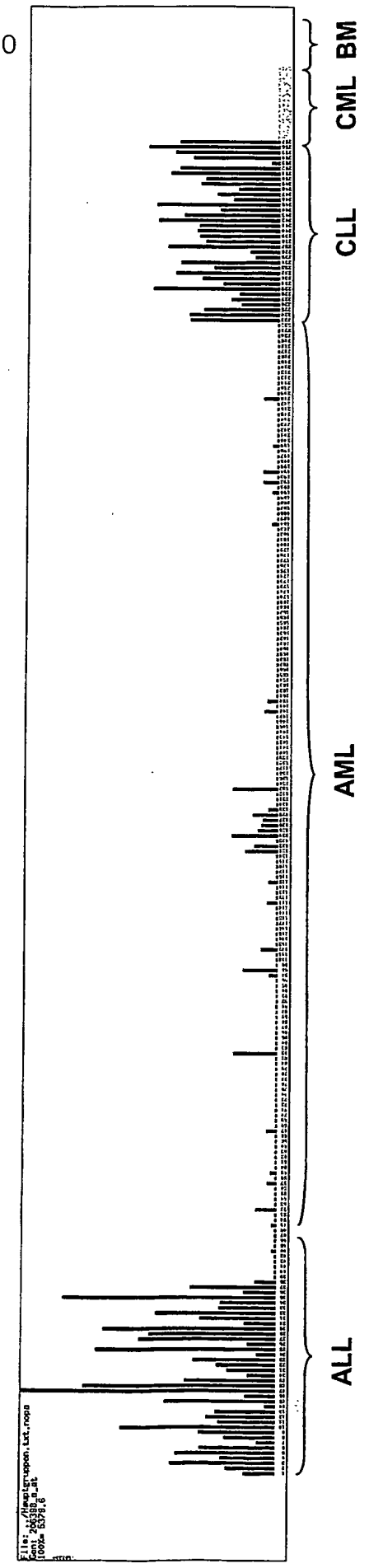


Figure 414

223514_at, CARD11, AML vs. CLL

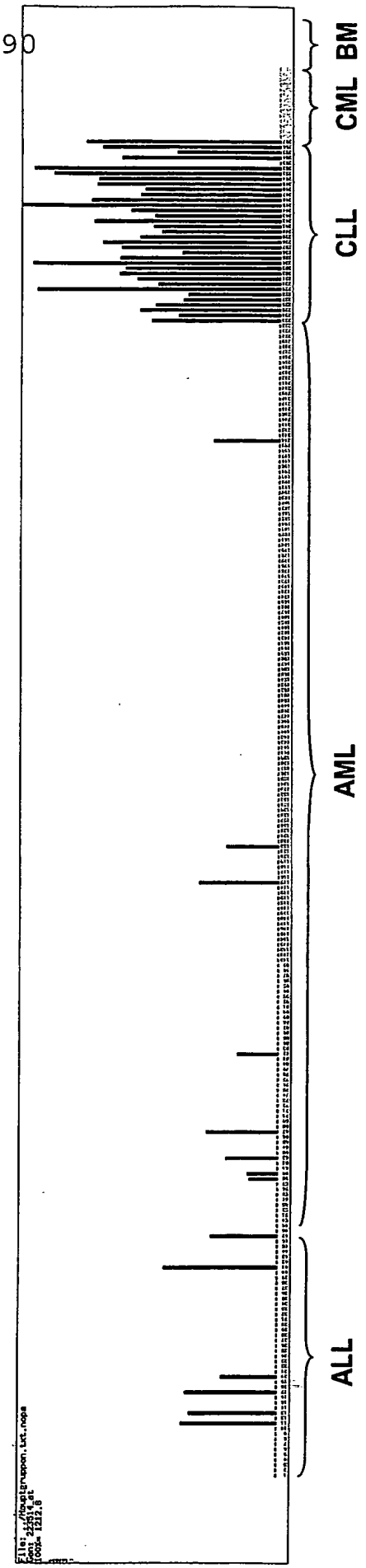


Figure 415

207802_at, SGP28, AML vs. CML

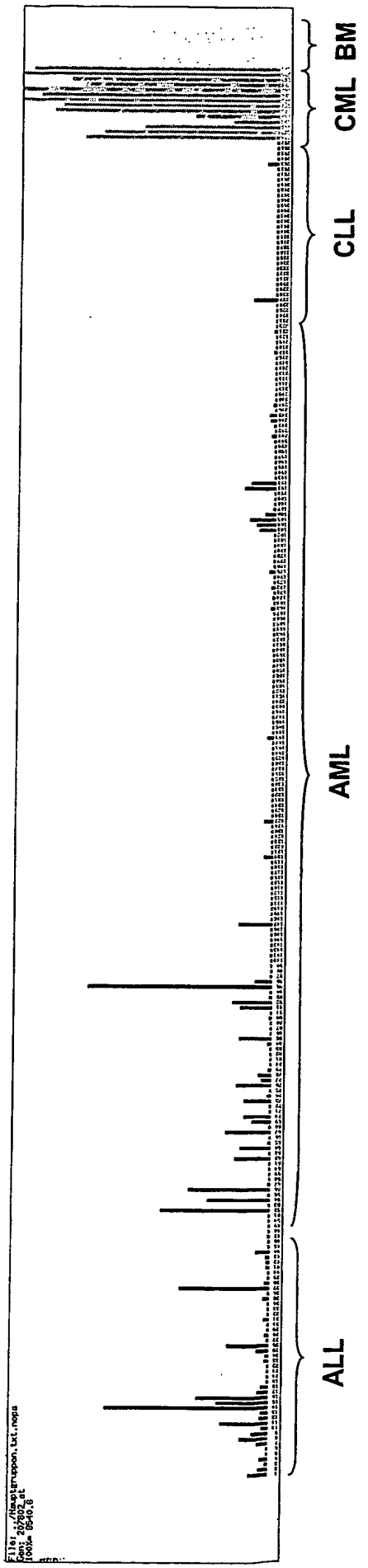


Figure 416

BNSDOCID: <WO_____03039443A2_I_>

209772_s_at, CD24, AML vs. CML

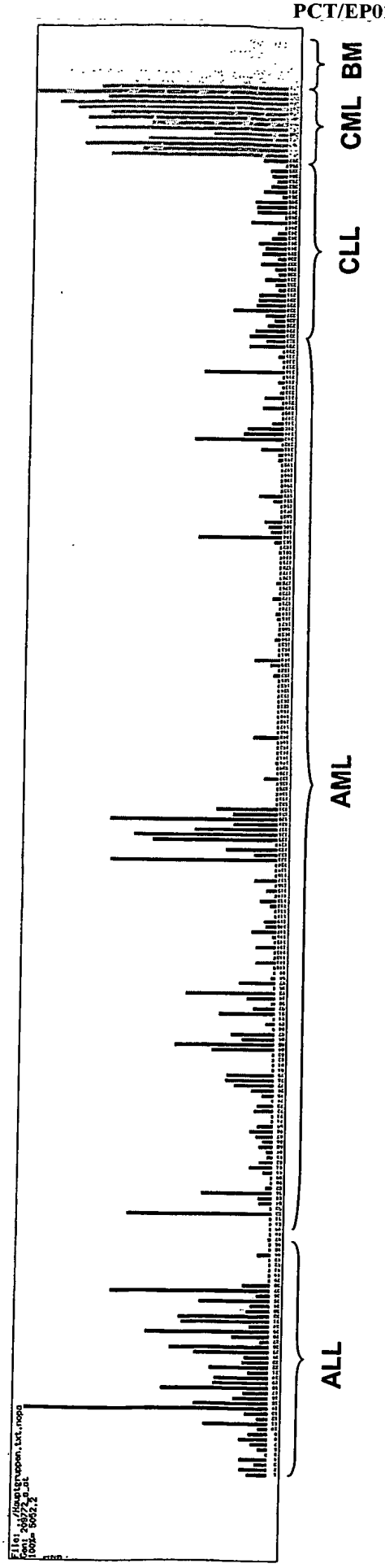


Figure 417

206676_at, CEACAM8, AML vs. CML

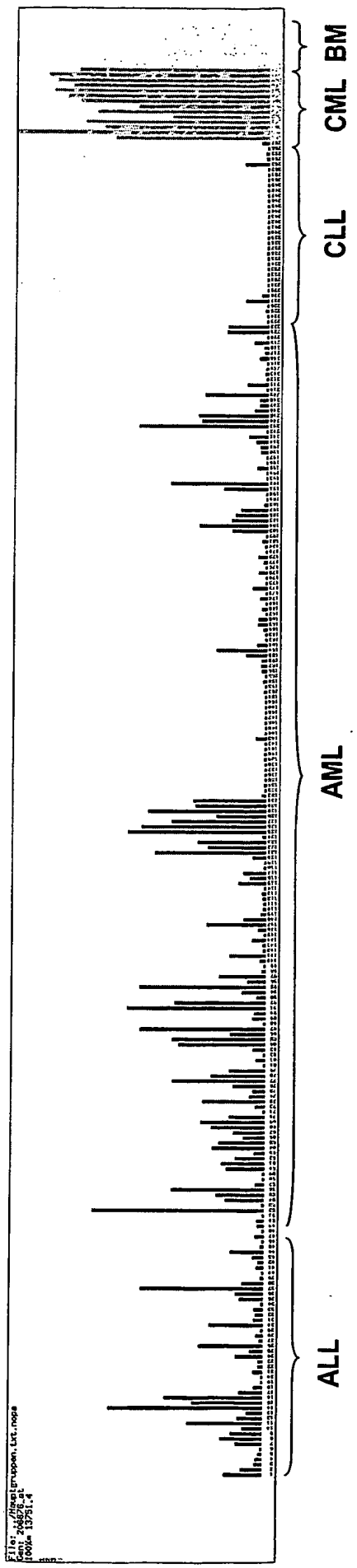


Figure 418

203936_s_at, MMP9, AML vs. CML

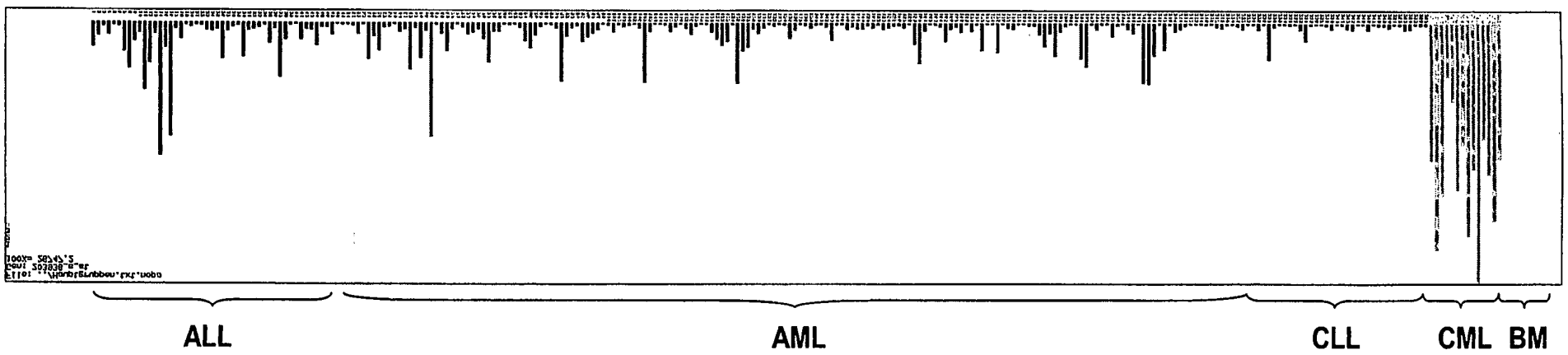


Figure 419

201029_s_at, MIC2, AML vs. CML

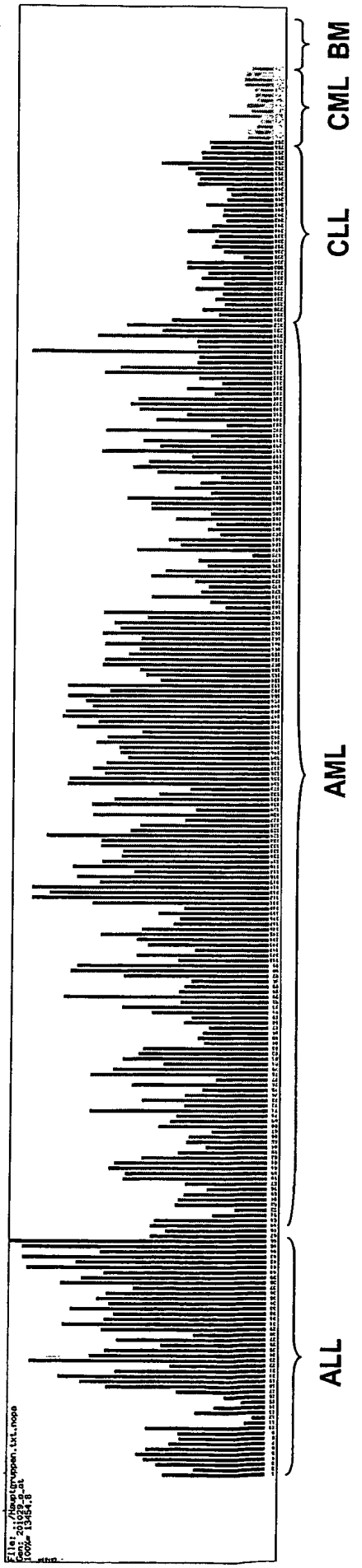


Figure 420

223894_s_at, FTS, AML vs. CML

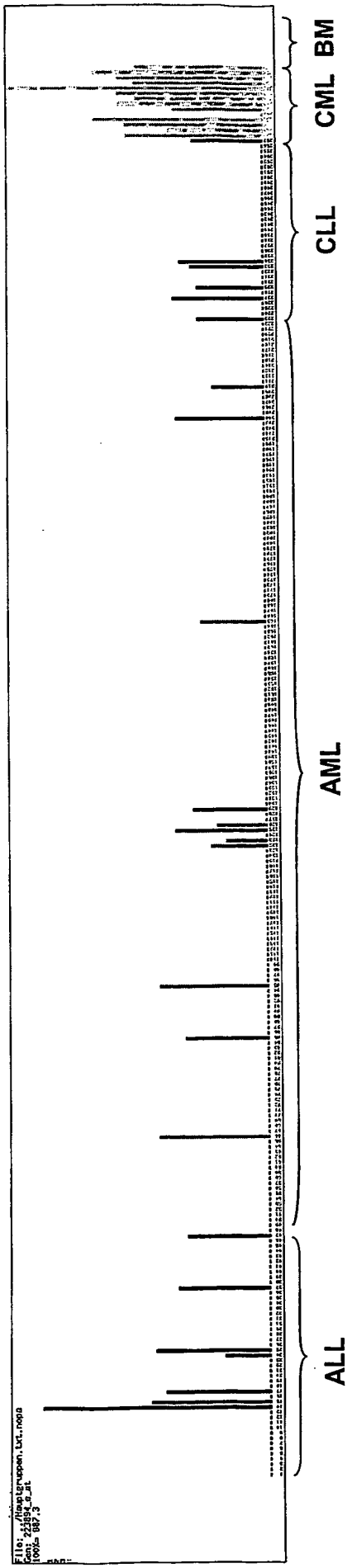


Figure 421

207269_at, DEFA4, AML vs. CML

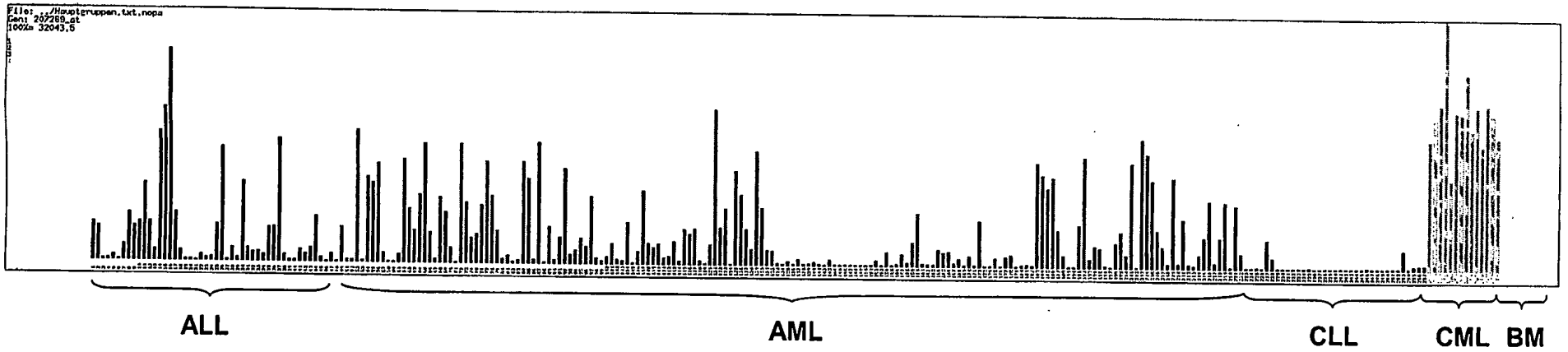


Figure 422

202018_s_at, LTF, AML vs. normal BM

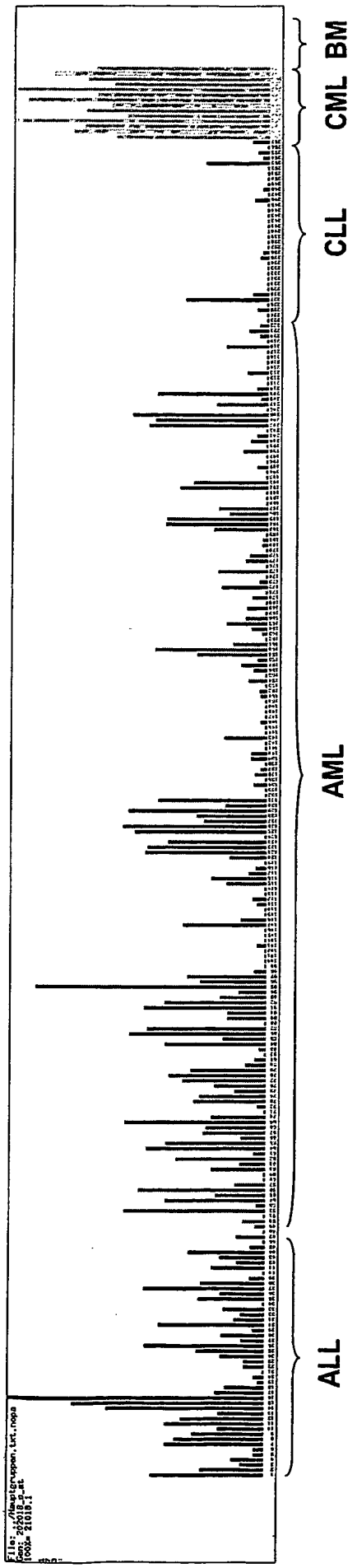


Figure 423

239287_at, CLL vs. all others

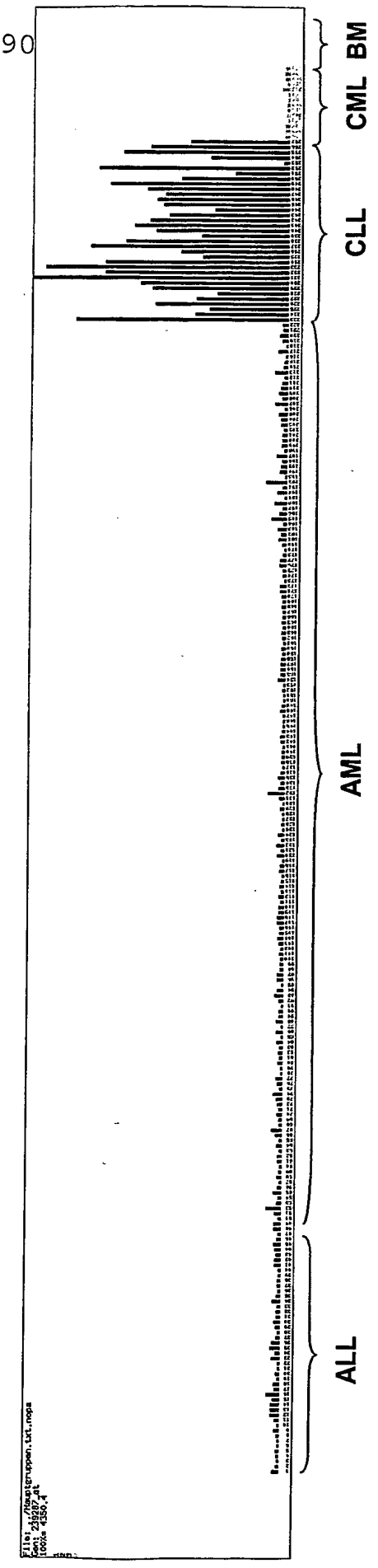


Figure 424

210254_at, CLL vs. CML

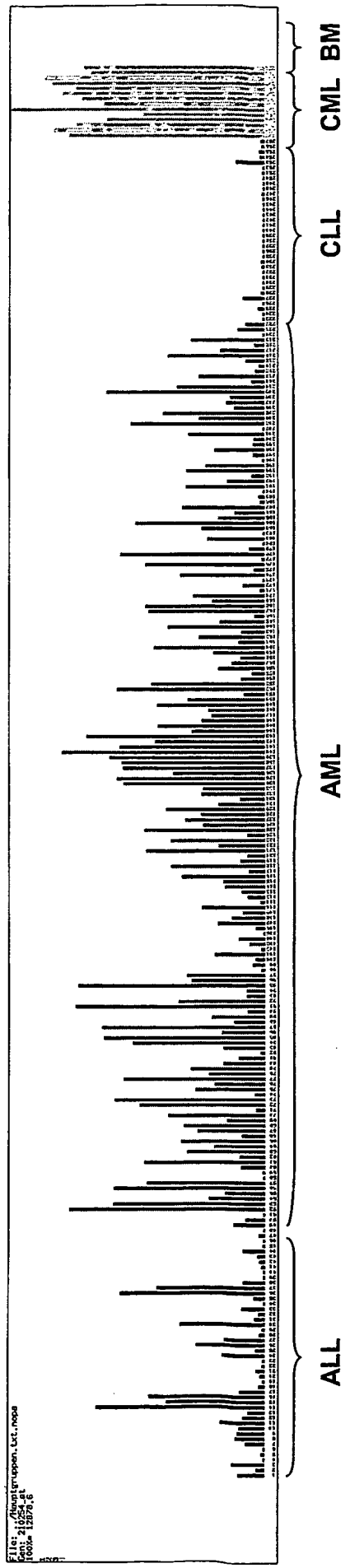


Figure 425

210613_s_at, SYNGR1, CLL vs. normal BM

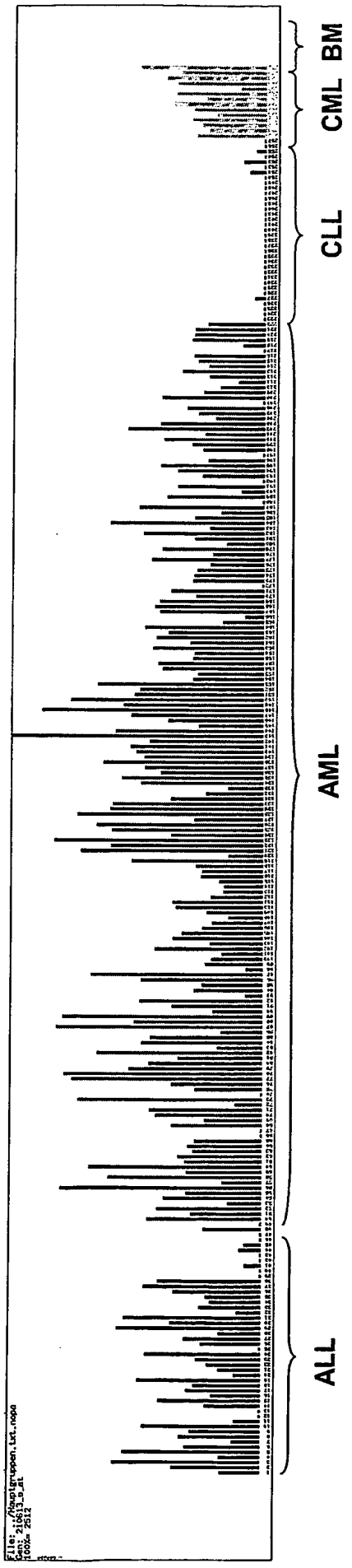


Figure 426

205557_at, BPI, CML vs. all others

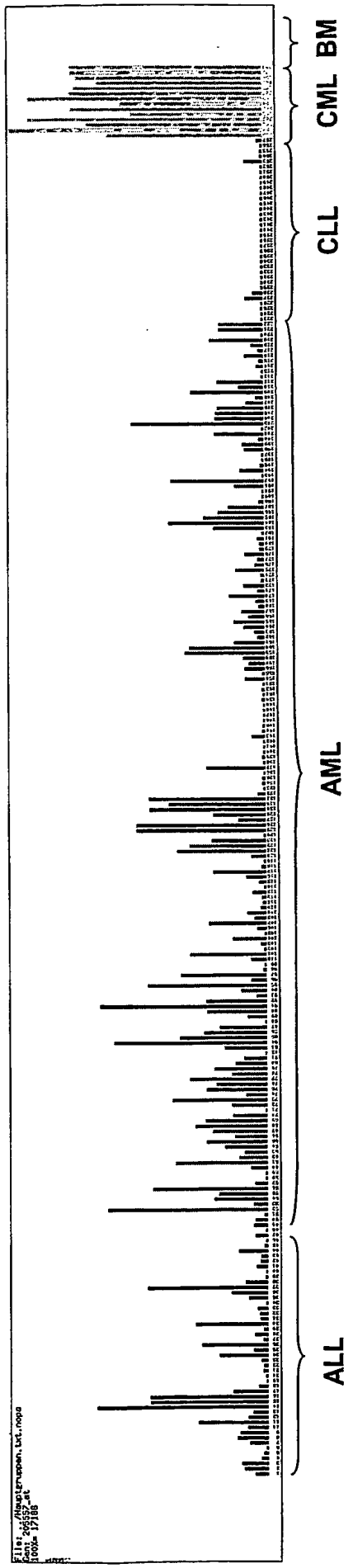


Figure 427

209772_s_at, CD24, CML vs. all others

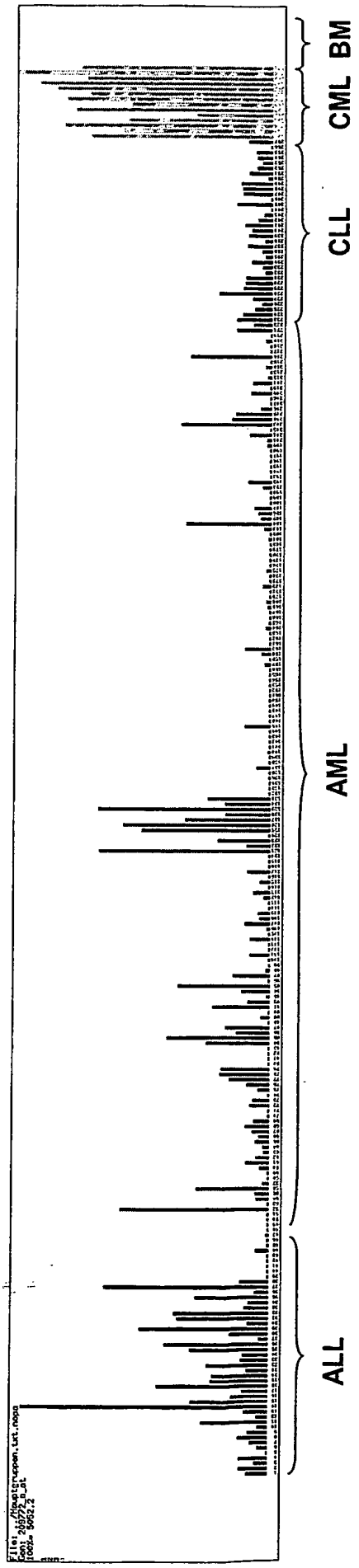


Figure 428

227198_at, CML vs. normal BM

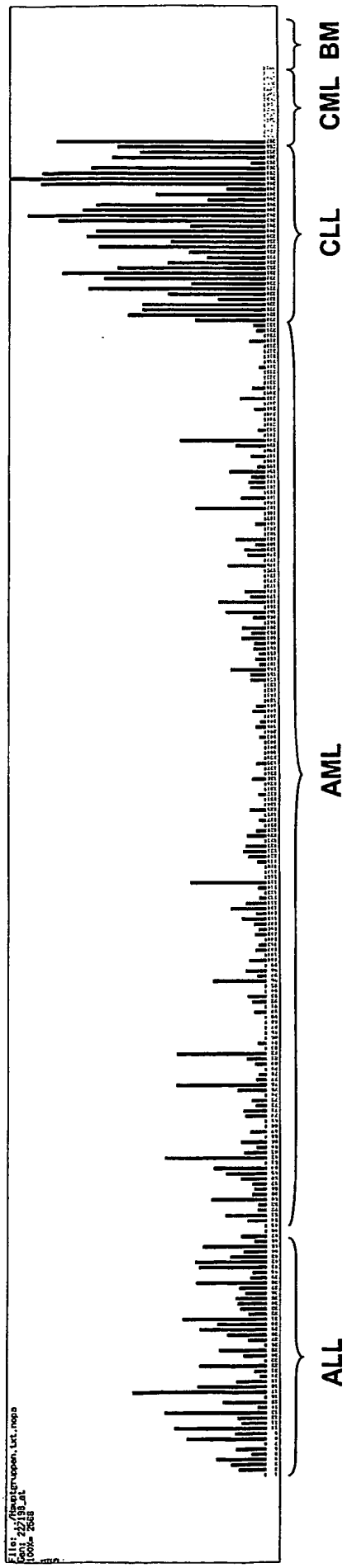


Figure 429

231241_at, normal BM vs. all others

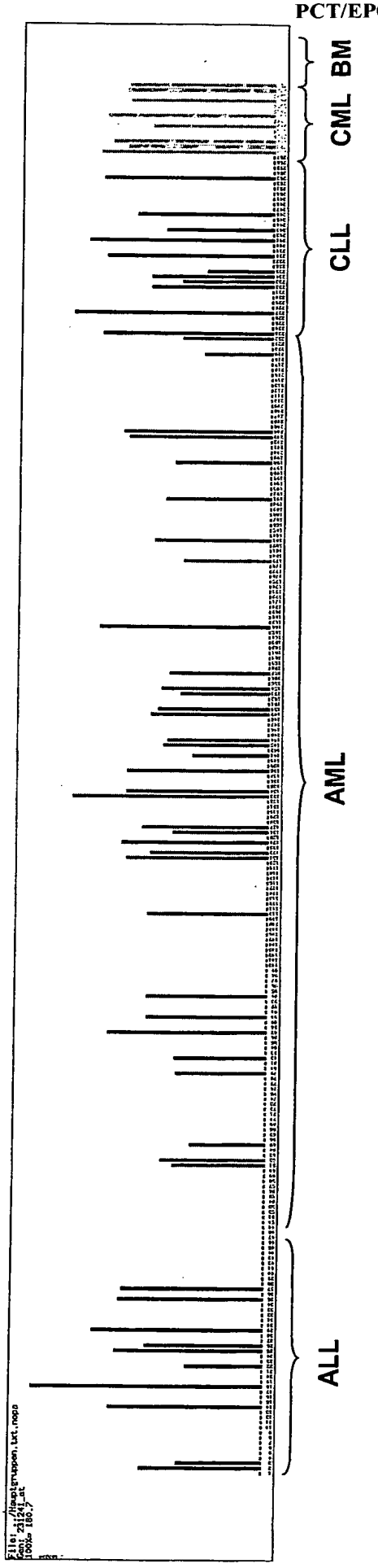


Figure 430

227497_at, normal BM vs. all others

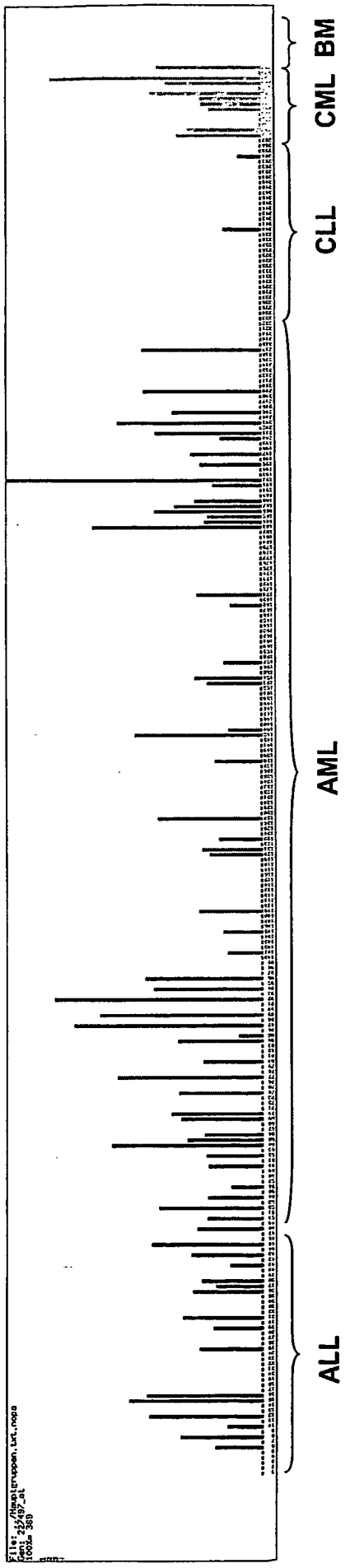


Figure 431

202580_x_at, FOXM1, CLL

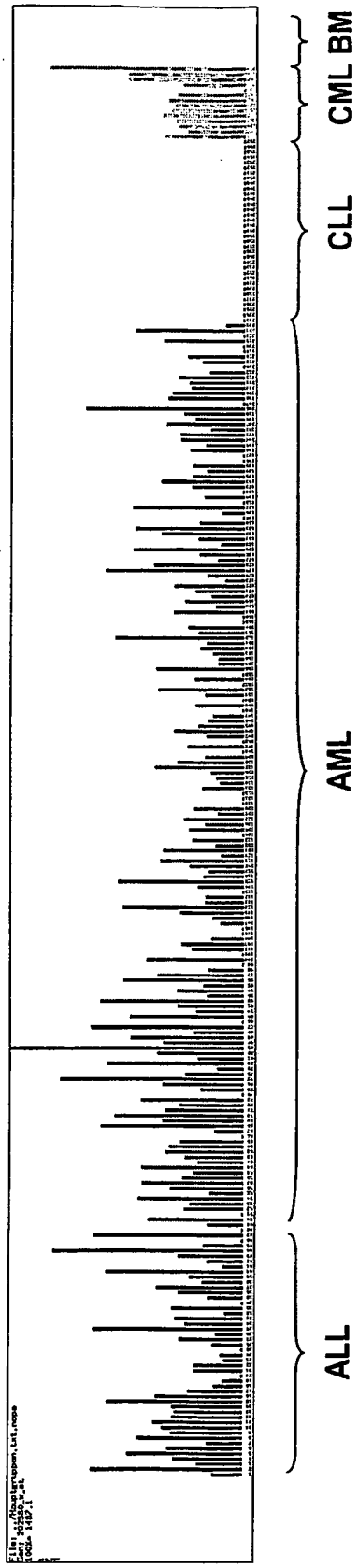


Figure 432

202709_at, FMOD, CLL

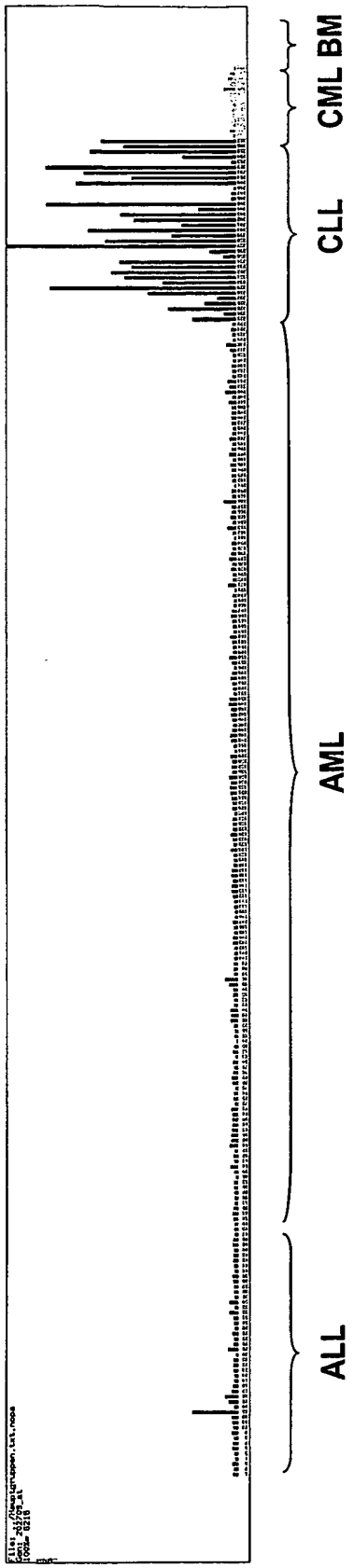


Figure 433

202503_s_at, KIAA0101, CLL

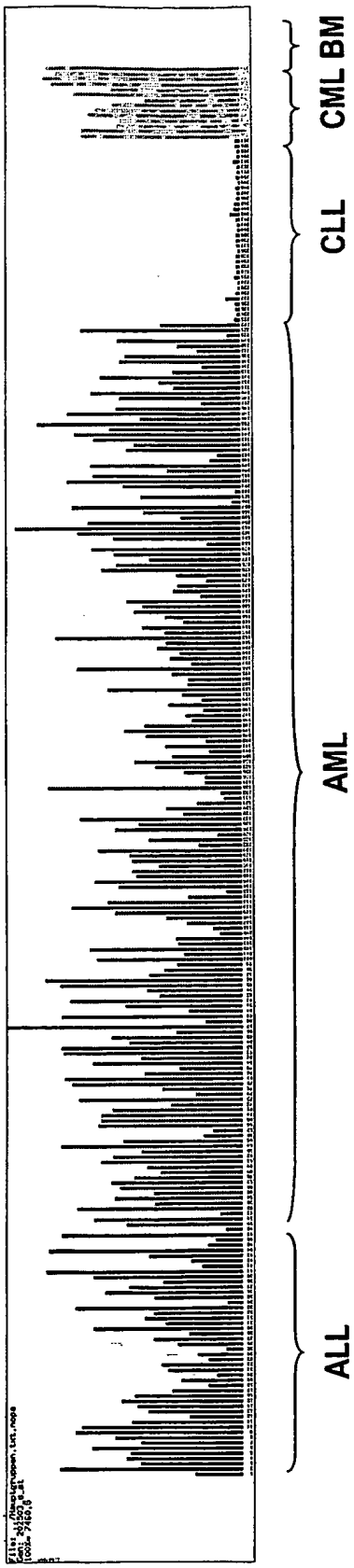


Figure 434

204882_at, KIAA0053, CLL

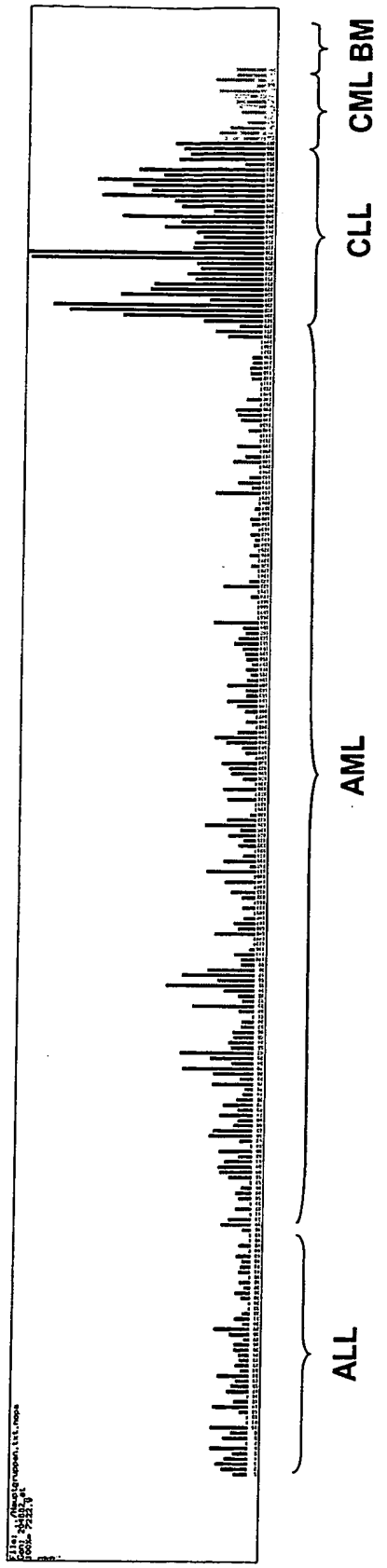


Figure 435

218090_s_at, CLL

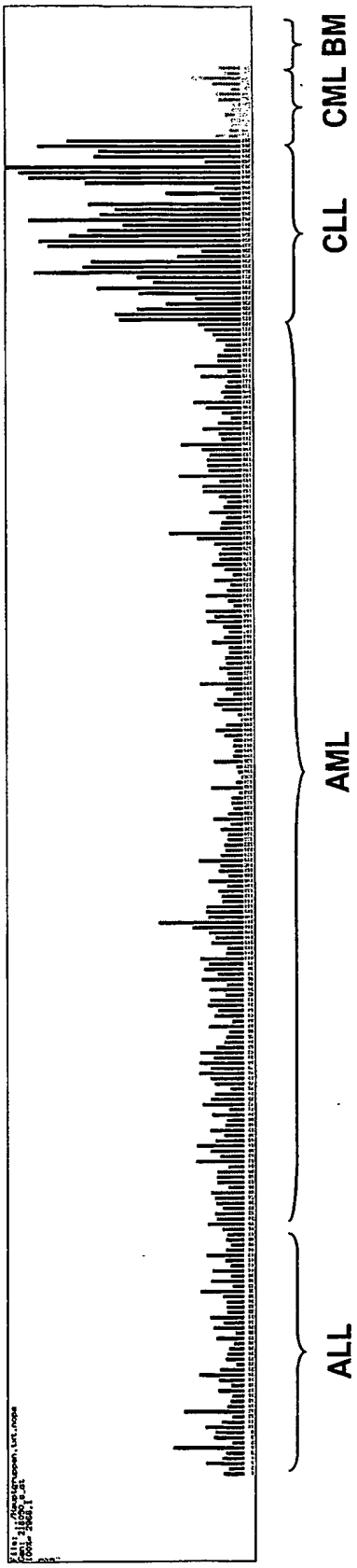


Figure 436

211352_s_at, NCOA3, CLL

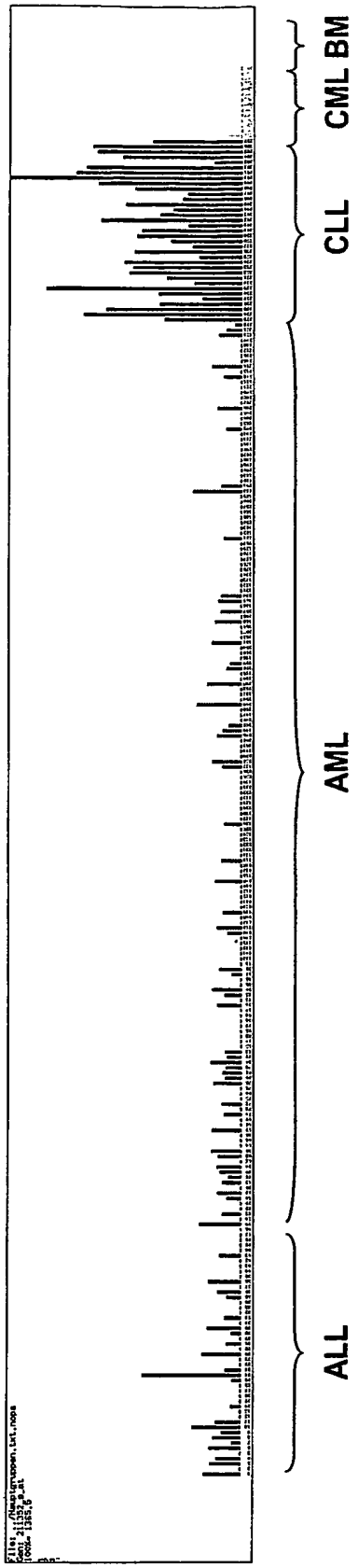


Figure 437

217950_at, NOSIP, CLL

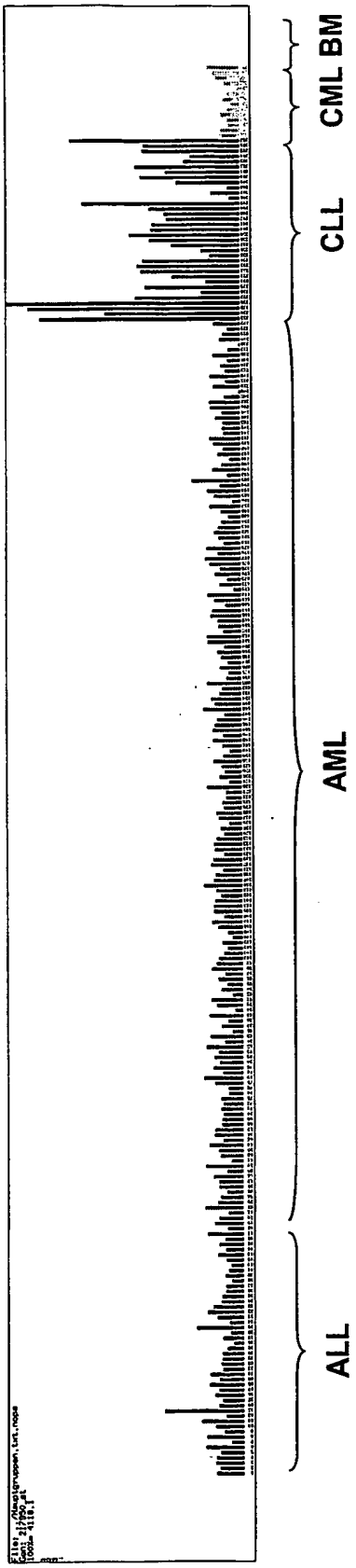


Figure 438

228471_at, CLL

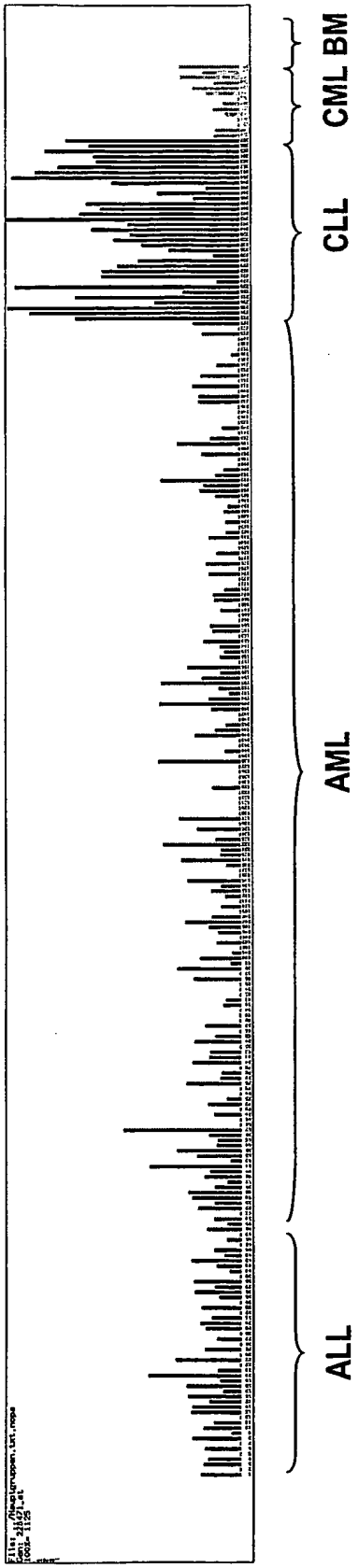


Figure 439

226147_s_at, CLL

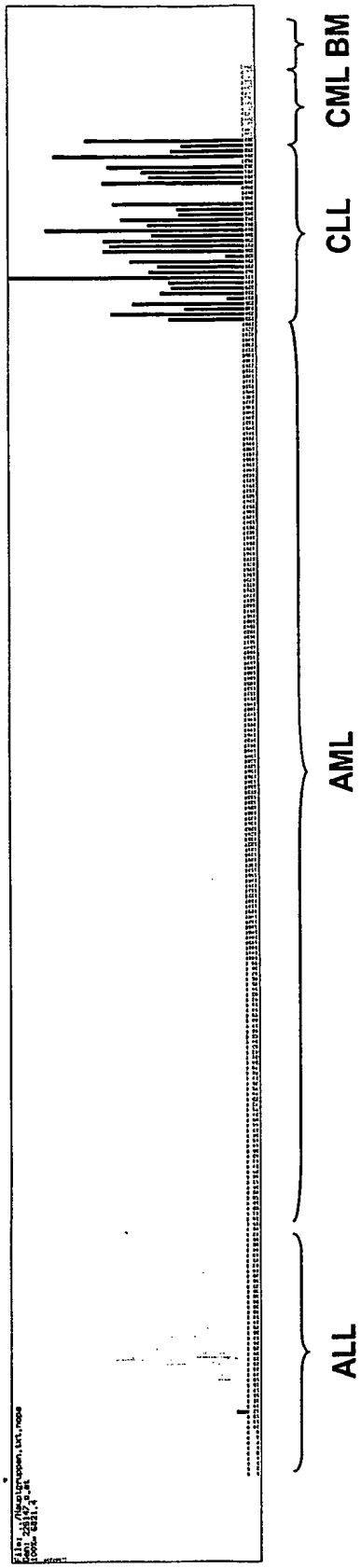


Figure 440

239287_at, CLL

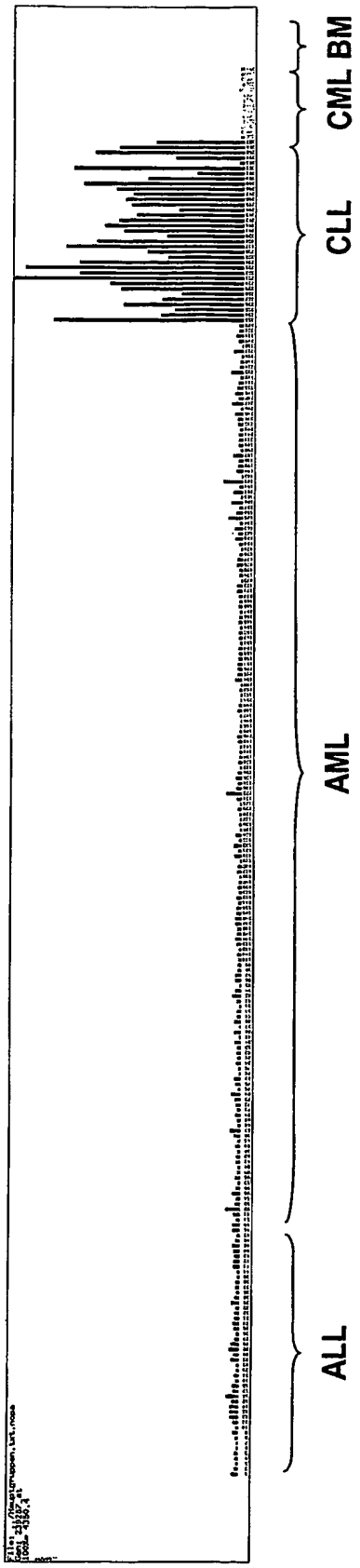


Figure 441

205051_s_at, KIT, AML

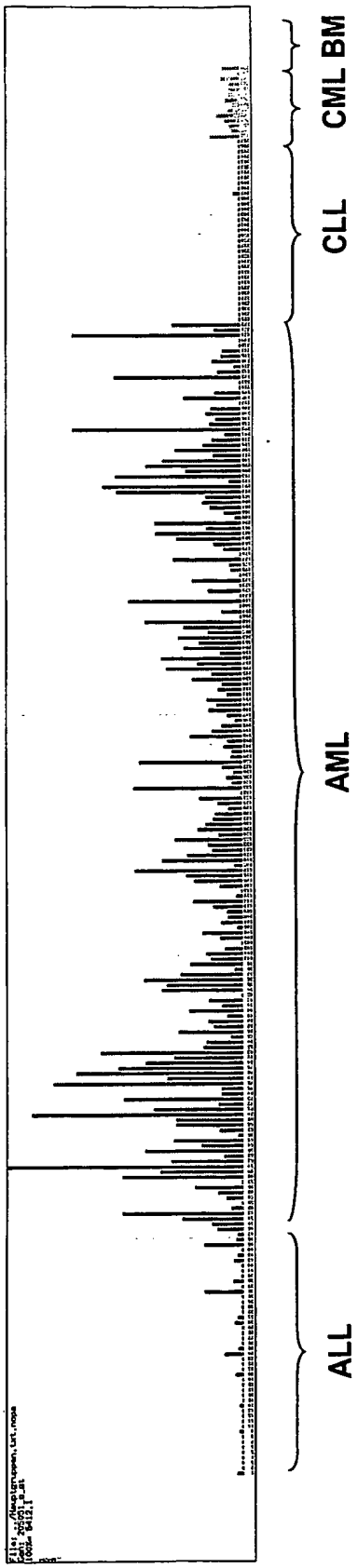


Figure 442

214761_at, OAZ, ALL

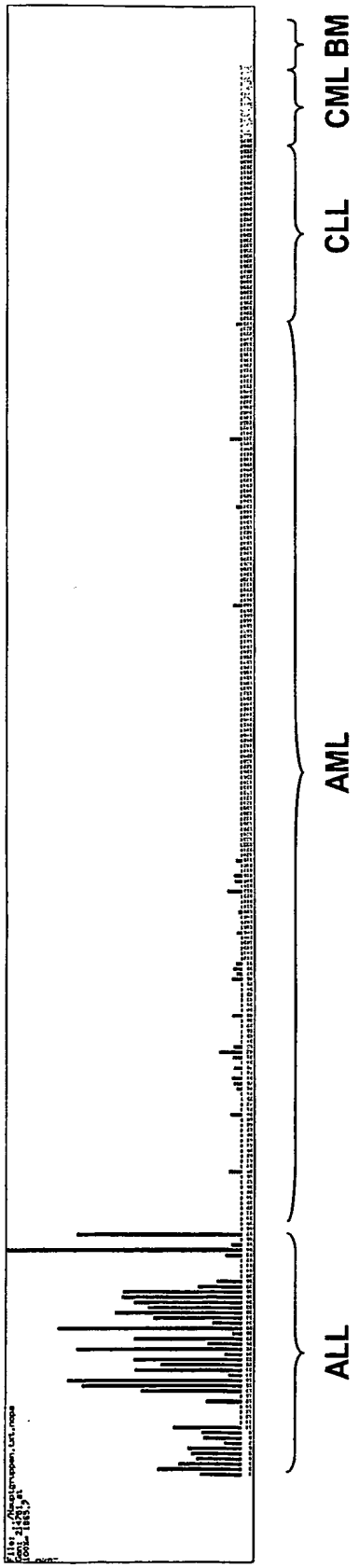


Figure 443

231854_at, CML

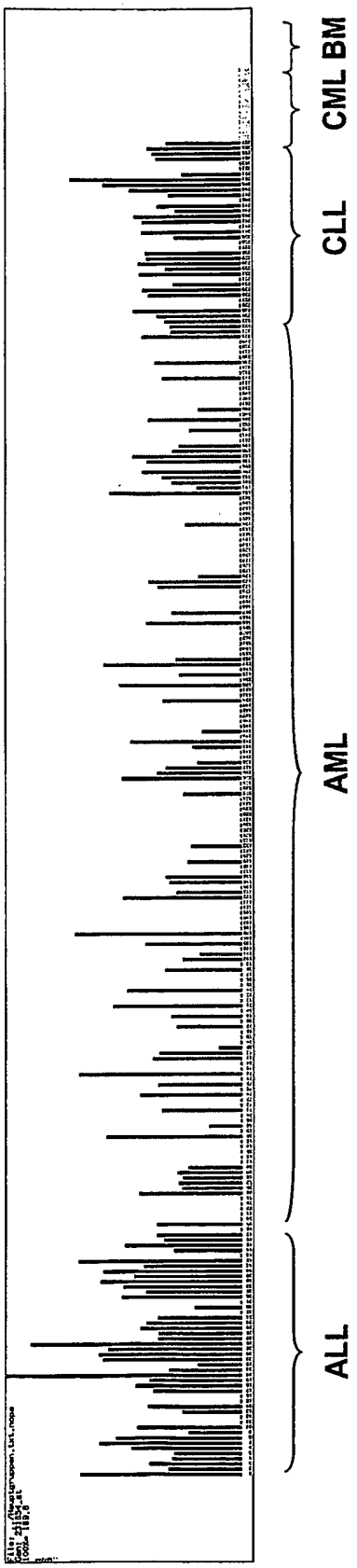


Figure 444

211404_s_at, APLP2, AML

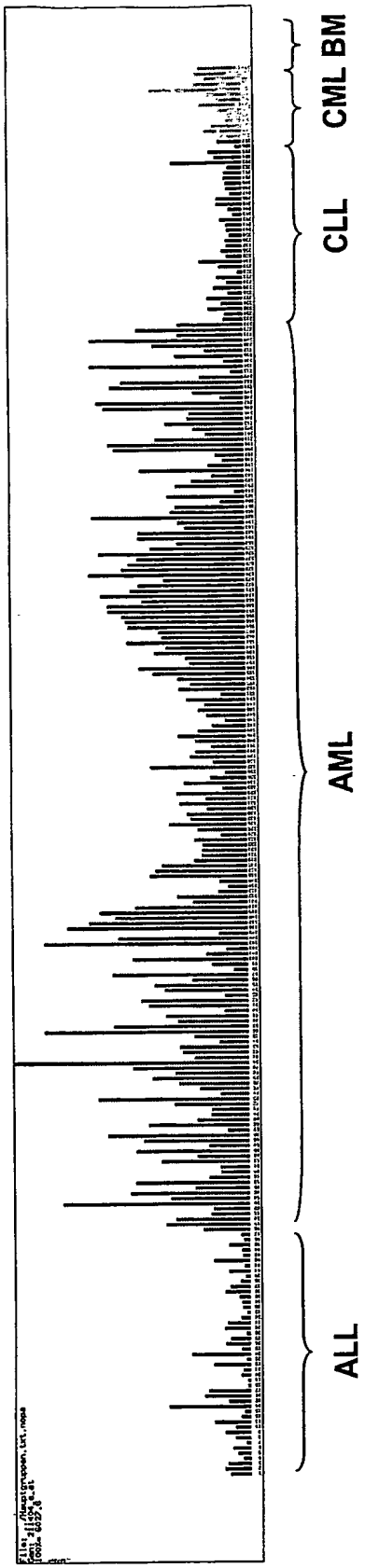


Figure 445

205382_s_at, DF, AML high

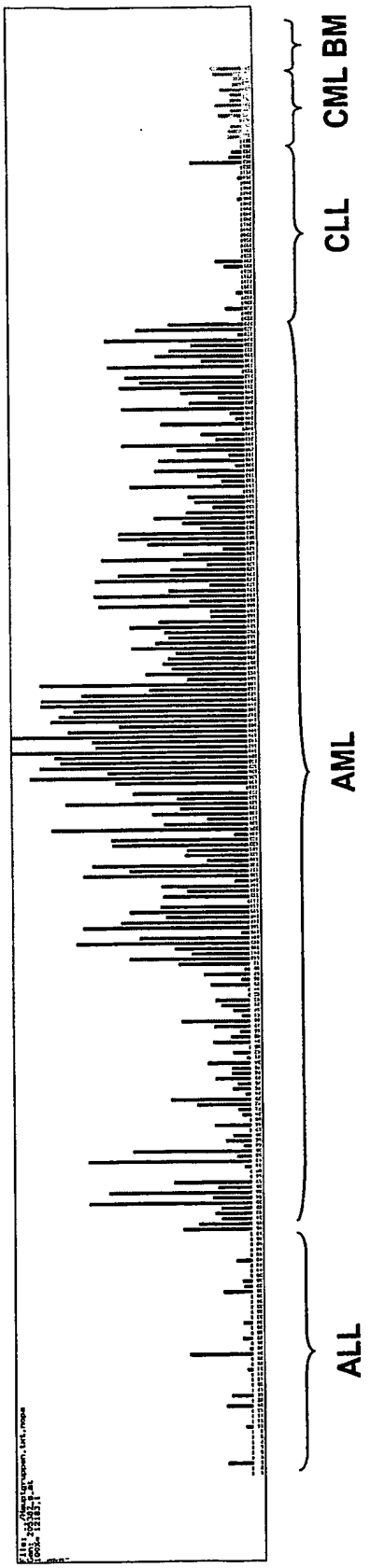


Figure 446

205599_at, TRAF1, CML absent, CLL high

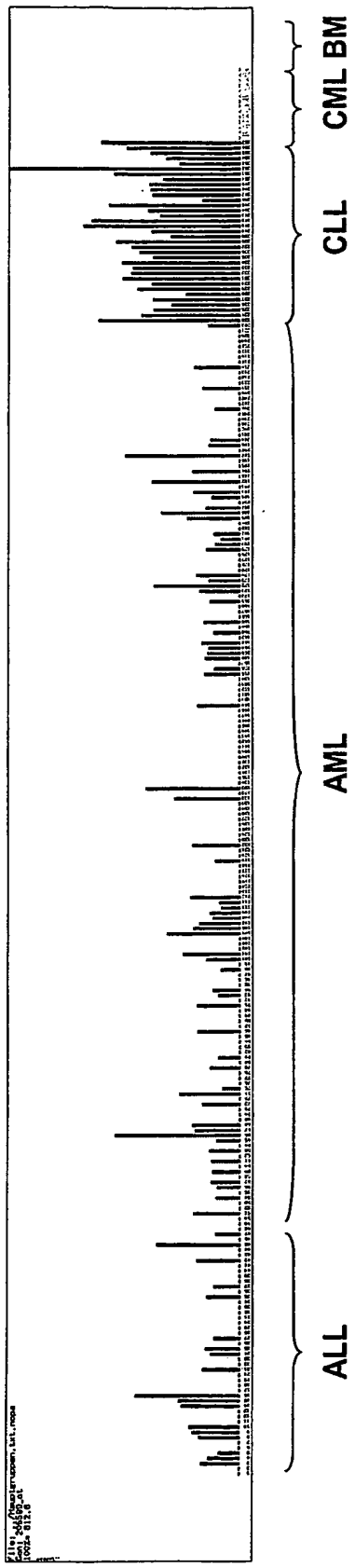


Figure 447

210948_s_at, LEF1, lymphatic high

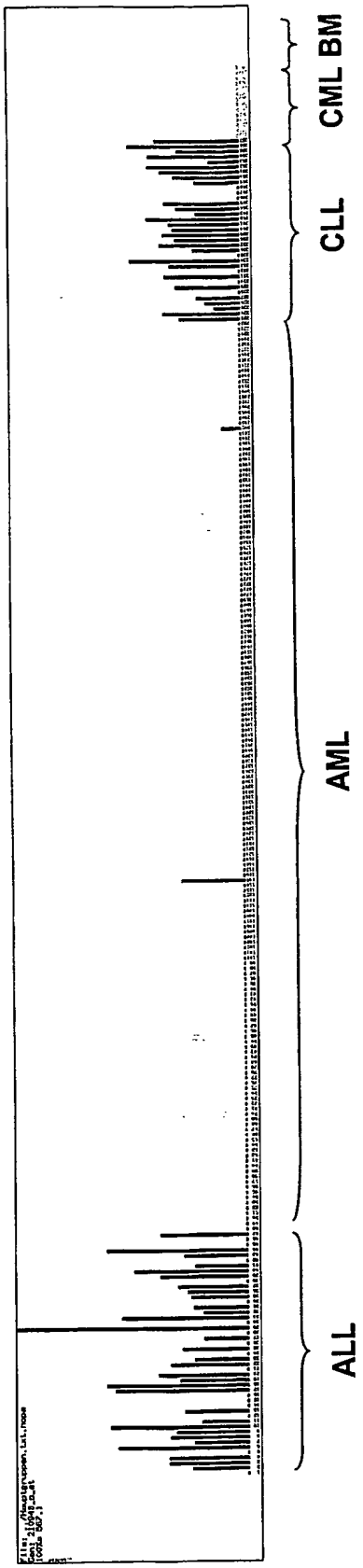


Figure 448

206398_s_at, CD19, lymphatic high

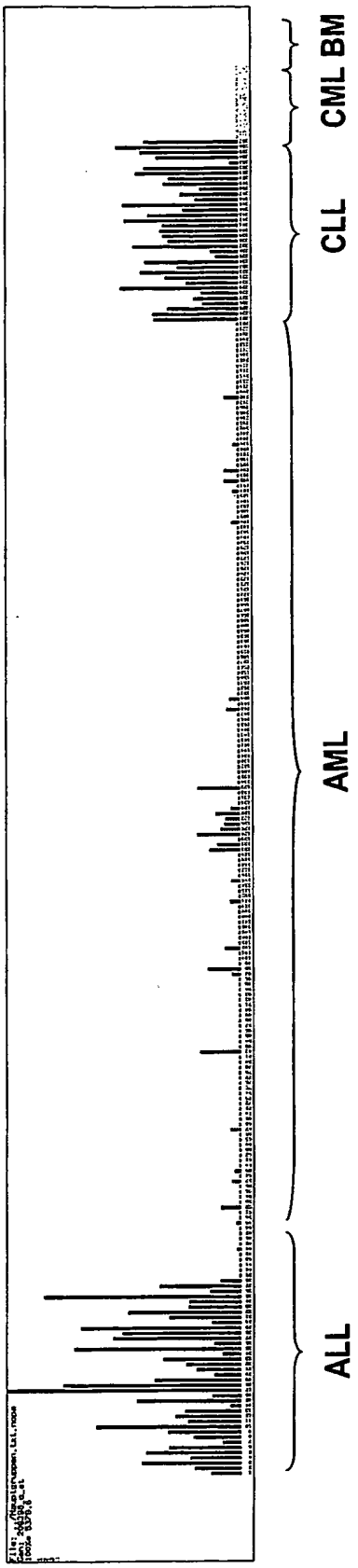


Figure 449

229487_at, ALL high

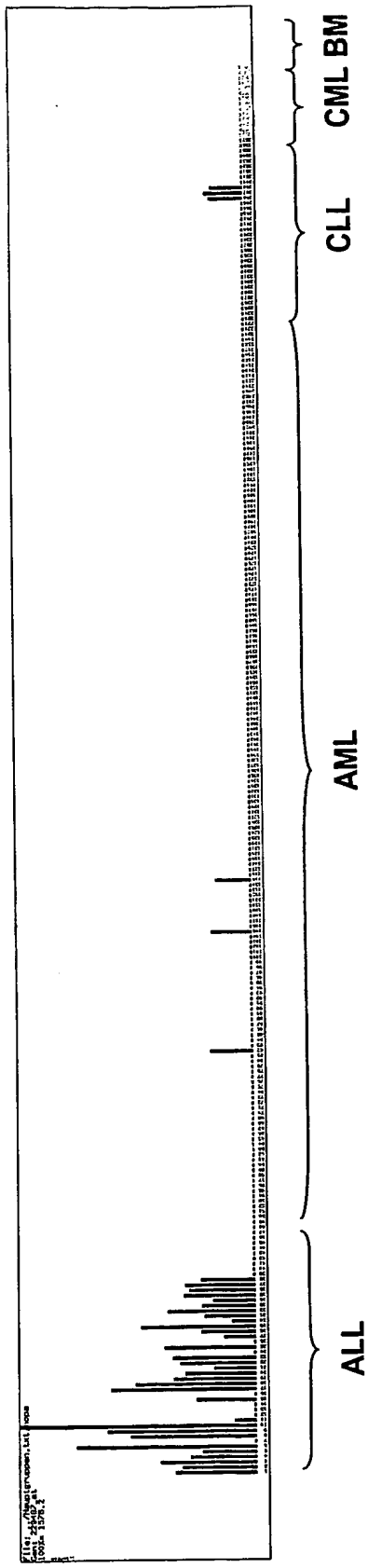


Figure 450

206255_at, BLK, lymphatic high

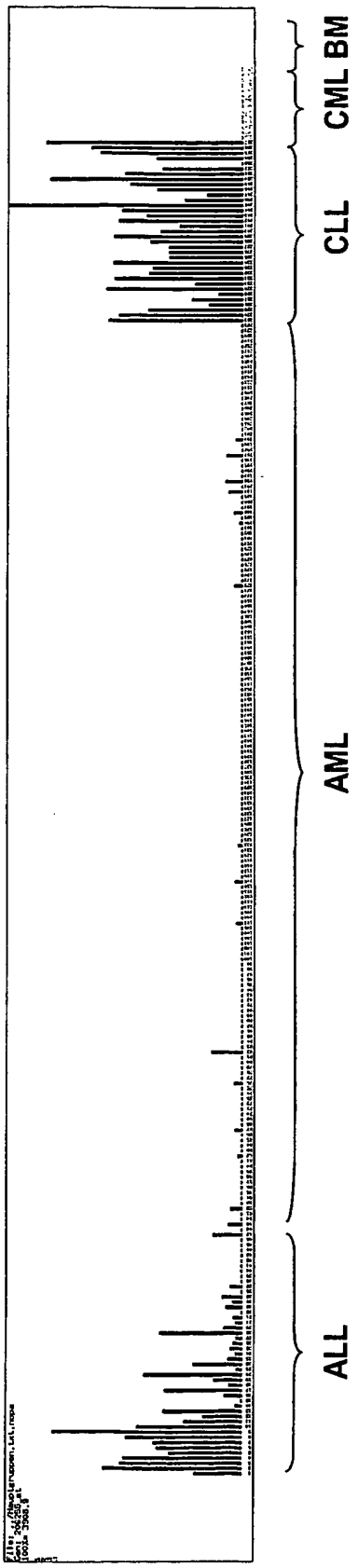


Figure 451

243362_s_at, LEF1, ALL high

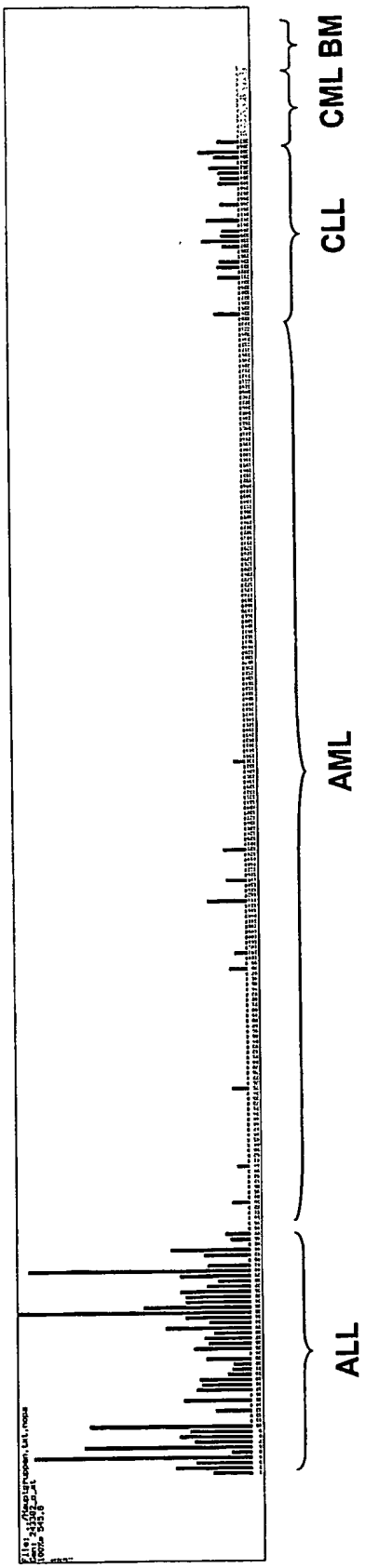


Figure 452

205049_s_at, CD79A, lymphatic high

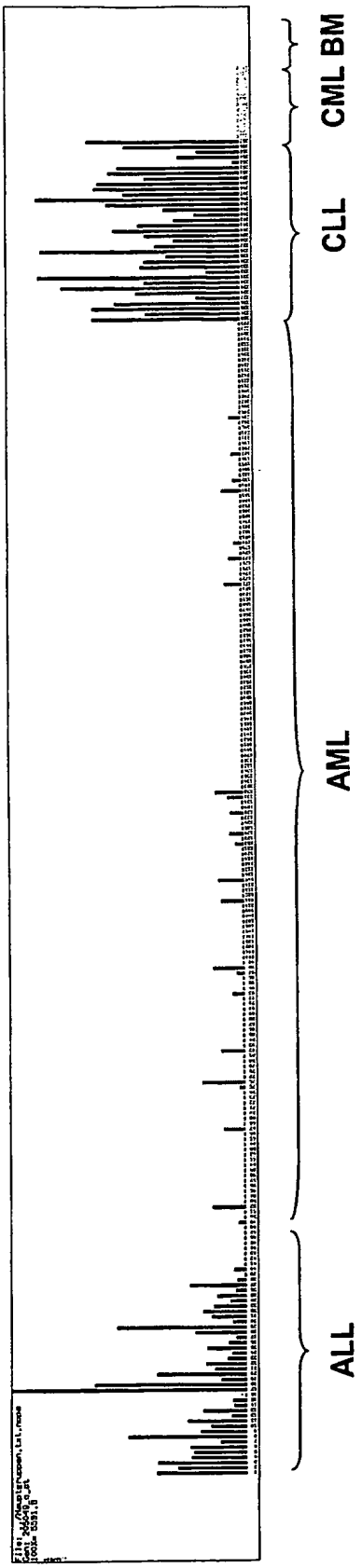


Figure 453

205382_s_at, DF, AML high

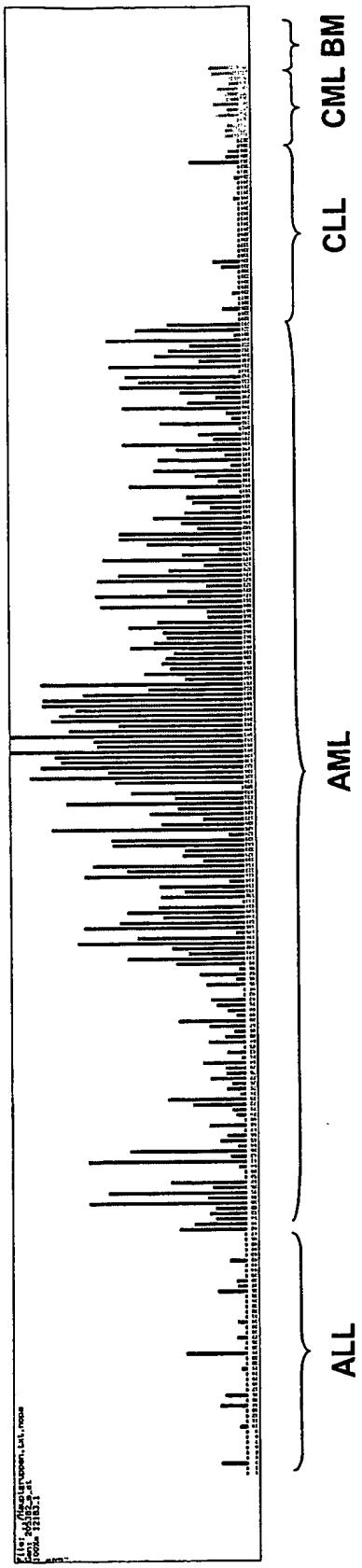


Figure 454

210487_at, DNTT, ALL high

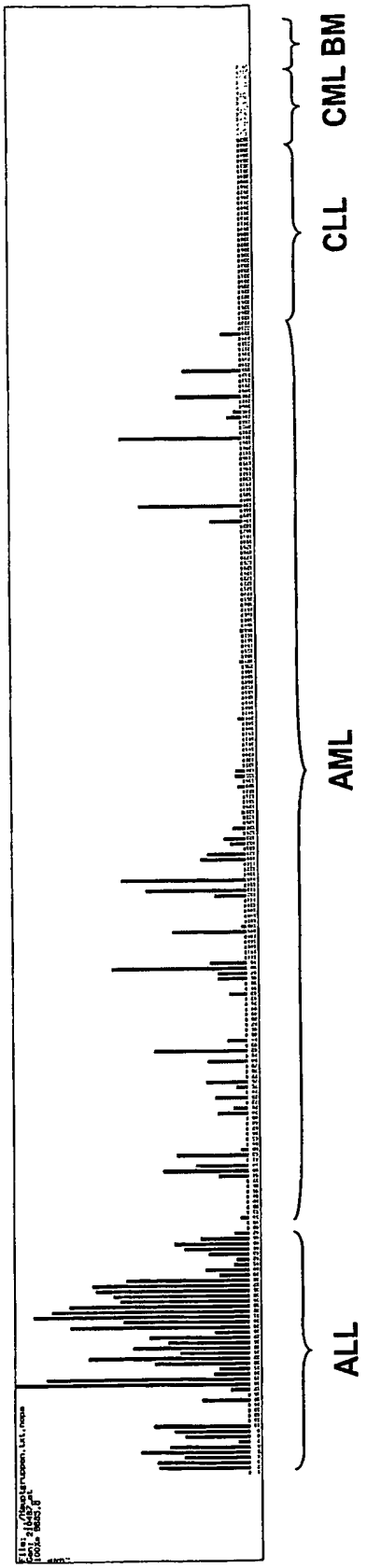


Figure 455

218516_s_at, FLJ20421, normal BM absent

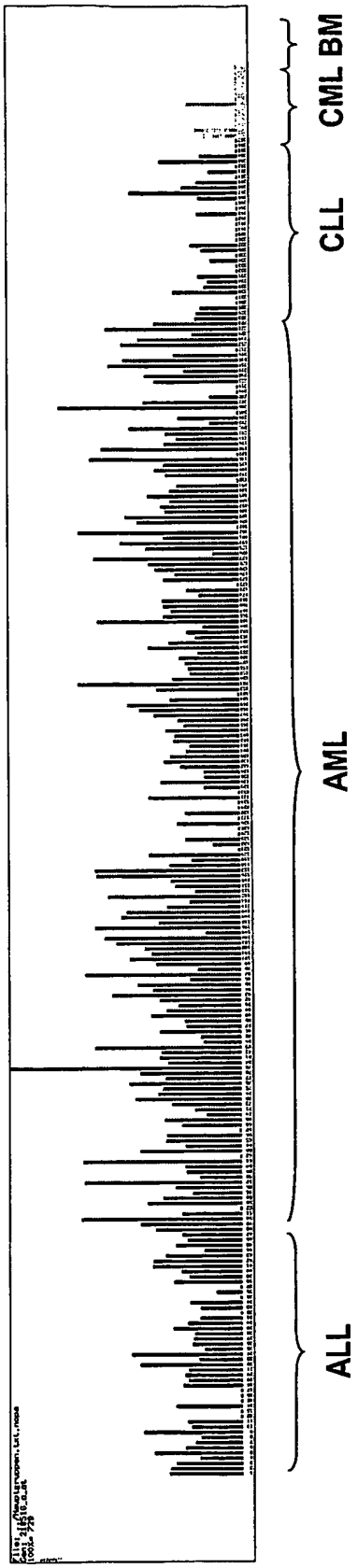


Figure 456

218916_at, FLJ23436, normal BM absent

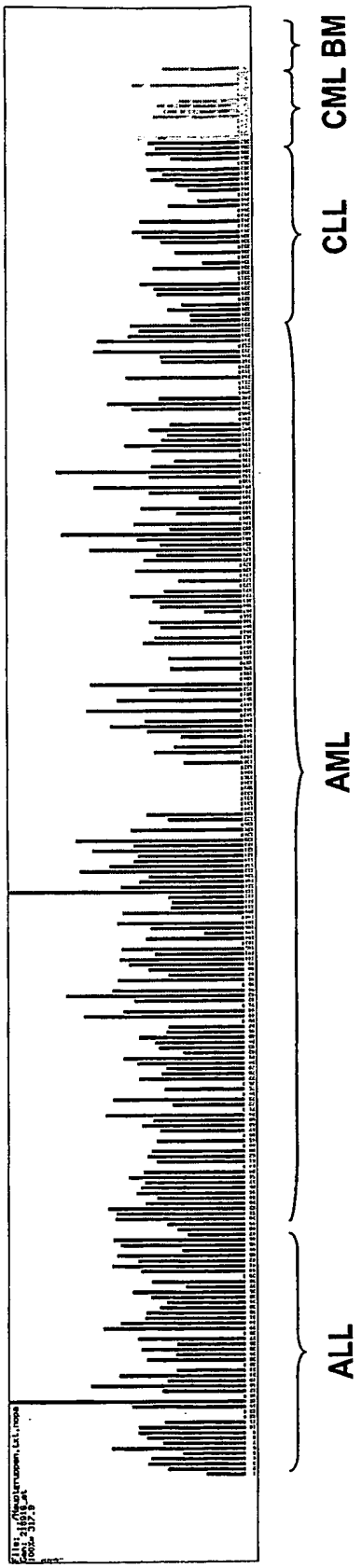


Figure 457

219753_at, STAG3, ALL high

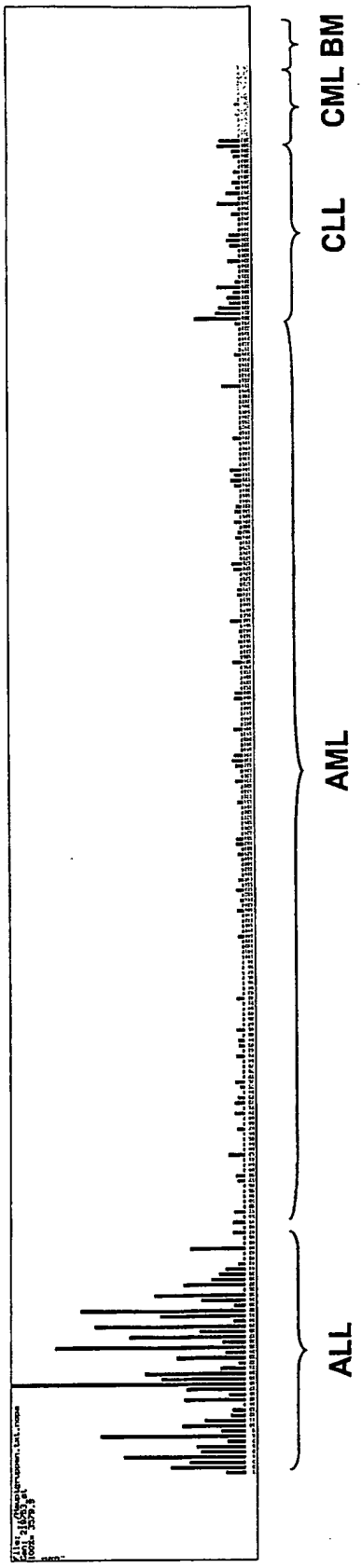


Figure 458

221969_at, PAX5, lymphatic high

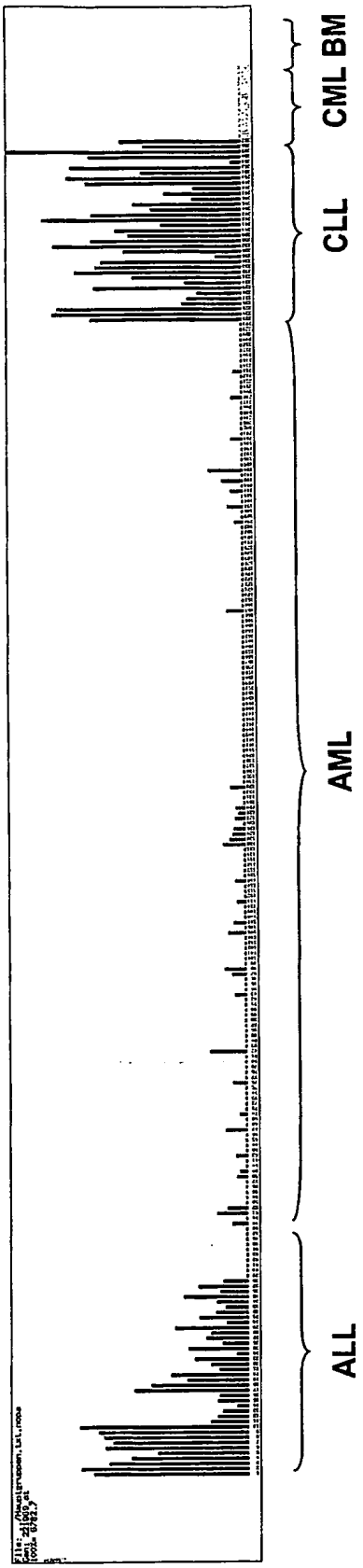


Figure 459

223703_at, CDA017, myeloid and BM high

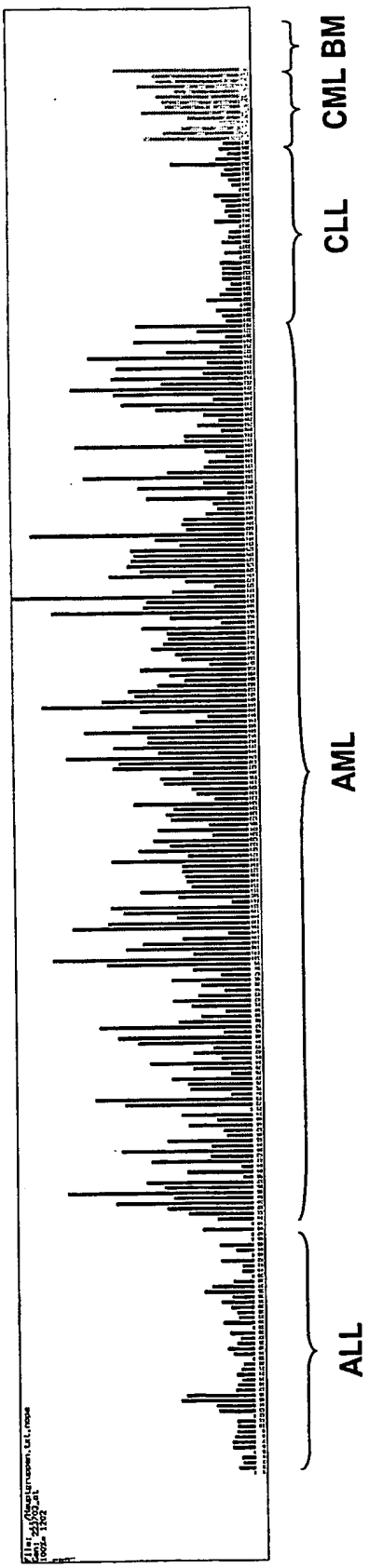


Figure 460

243363_at, LEF1, lymphatic high

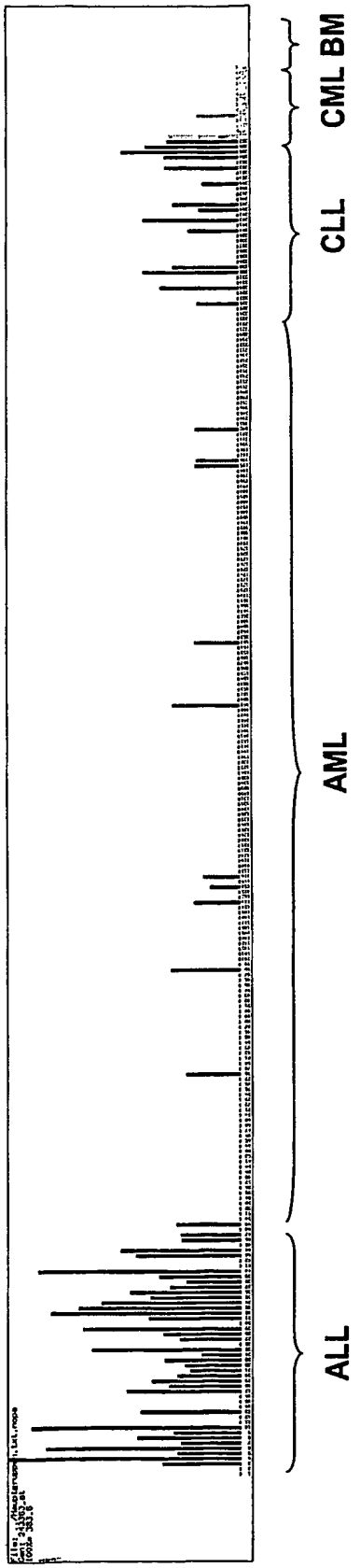


Figure 461

41577_at, PPP1R16B, CML low

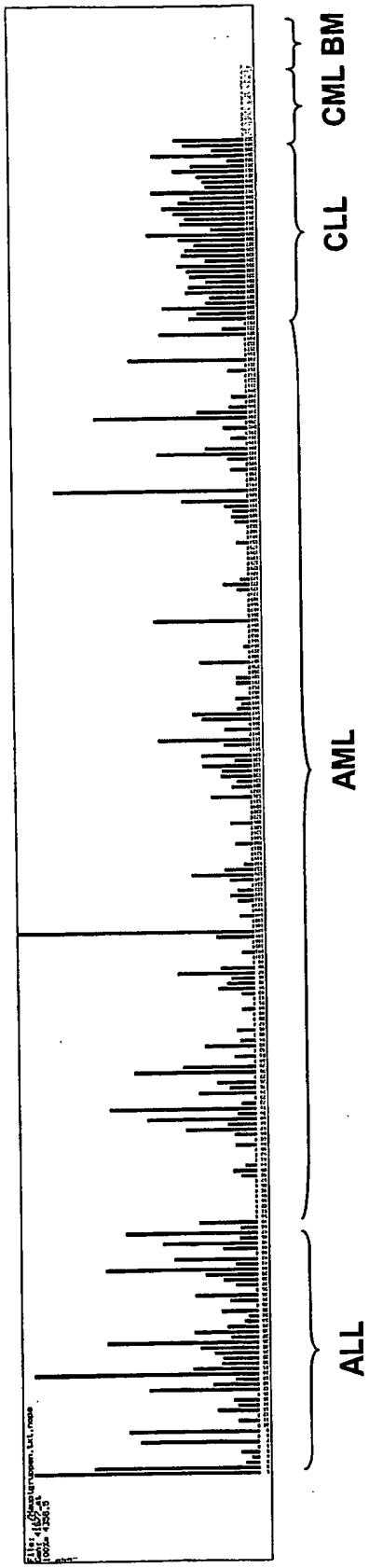


Figure 462

229790_at, TERF2, CML, BM low

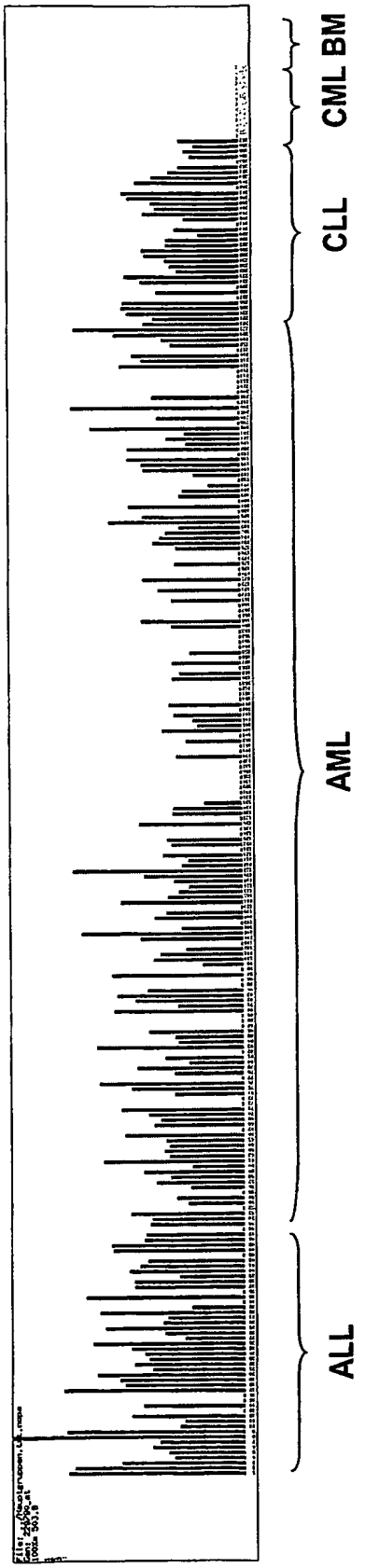


Figure 463

231736_x_at, MGST1, myeloid and BM high

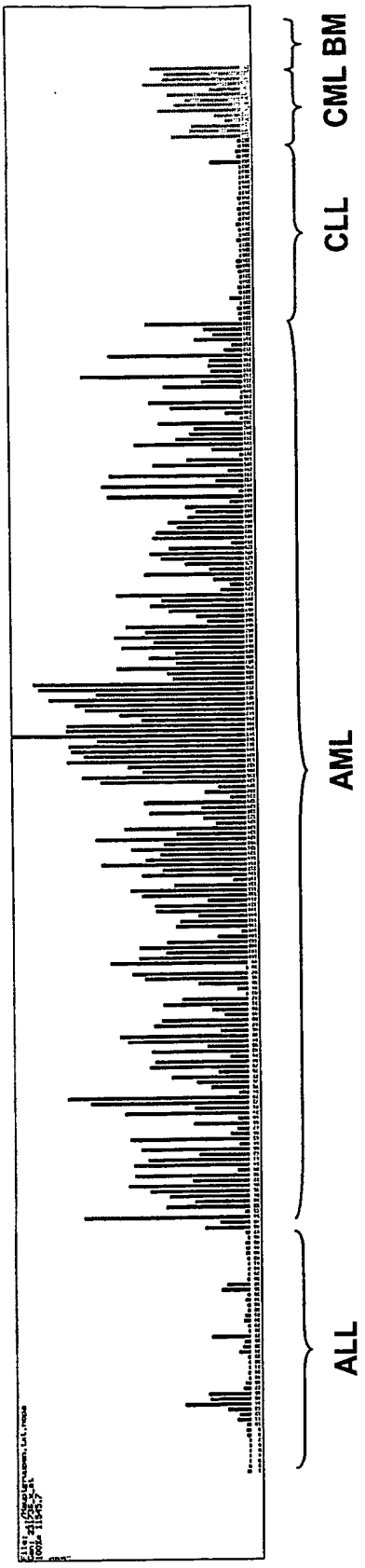


Figure 464

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(74) Agent: **VOSSIUS & PARTNER**; Siebertstrasse 4, 81675 Munich (DE).

(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

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Published:
— *with international search report*

(88) Date of publication of the international search report:
19 August 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: NOVEL GENETIC MARKERS FOR LEUKEMIAS

(57) Abstract: The present invention is related to methods for detecting leukemia cells by determing the expression profile of a group of markers. In particular, the type or subtype of leukemia cells in a sample is determined. Further, uses of the group of markers is discloses and compositions comprising these markers.

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 02/12303

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, MEDLINE, BIOSIS, SCISEARCH, EMBASE, CHEM ABS Data, WPI Data, PAJ, Sequence Search

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	GOLUB T R ET AL: "Molecular classification of cancer: Class discovery and class prediction by gene expression monitoring" SCIENCE, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE,, US, vol. 286, no. 5439, 15 October 1999 (1999-10-15), pages 531-537, XP002207658 ISSN: 0036-8075 cited in the application the whole document -/--	1-3, 9-11, 16-42, 44,45, 48,53-55

[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

° Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
4 December 2003	12. 03. 2004

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Hagenmaier, S

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BNSDOCID: <WO_____03039443A3_I_>

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	-& "CAMP: "Microarray Gene Expression Data""[Online] XP002263385 Retrieved from the Internet: <URL:http://genome-www5.stanford.edu/cgi-bin/source/sourceResult> [retrieved on 2003-11-24] the whole document	
Y	EP 1 043 676 A (WHITEHEAD BIOMEDICAL INST) 11 October 2000 (2000-10-11) the whole document	1-3, 9-11, 16-42, 44,45, 48,53-55
Y	ALIZADEH A A ET AL: "DISTINCT TYPES OF DIFFUSE LARGE B-CELL LYMPHOMA IDENTIFIED BY GENE EXPRESSION PROFILING" NATURE, MACMILLAN JOURNALS LTD. LONDON, GB, vol. 403, 3 February 2000 (2000-02-03), pages 503-512, XP002943414 ISSN: 0028-0836 the whole document	1-3, 9-11, 16-42, 44,45, 48,53-55
Y	ALIZADEH A ET AL: "THE LYMPHOCHIP: A SPECIALIZED CDNA MICROARRAY FOR THE GENOMIC-SCALE ANALYSIS OF GENE EXPRESSION IN NORMAL AND MALIGNANT LYMPHOCYTES" COLD SPRING HARBOR SYMPOSIA ON QUANTITATIVE BIOLOGY, BIOLOGICAL LABORATORY, COLD SPRING HARBOR, NY, US, vol. 64, no. 1, 1999, pages 71-78, XP001099007 ISSN: 0091-7451 the whole document	1-3, 9-11, 16-42, 44,45, 48,53-55
Y	VIRTANEVA K ET AL: "EXPRESSION PROFILING REVEALS FUNDAMENTAL BIOLOGICAL DIFFERENCES IN ACUTE MYELOID LEUKEMIA WITH ISOLATED TRISOMY 8 AND NORMAL CYTOGENETICS" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 98, no. 3, 30 January 2001 (2001-01-30), pages 1124-1129, XP002952627 ISSN: 0027-8424 the whole document	1-3, 9-11, 16-42, 44,45, 48,53-55

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BNSDOCID: <WO_____03039443A3_I_>

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 96/08508 A (GUDMUNDSSON GUDMUNDUR H ;BOMAN HANS G (SE); GUNNE HANS (SE); AGERB) 21 March 1996 (1996-03-21) the whole document	1-3, 9-11, 16-42, 44,45, 48,53-55
Y	AGERBERTH B ET AL: "FALL-39, a putative human peptide antibiotic, is cysteine-free and expressed in bone marrow and testis." PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. UNITED STATES 3 JAN 1995, vol. 92, no. 1, 3 January 1995 (1995-01-03), pages 195-199, XP002263224 ISSN: 0027-8424 the whole document	1-3, 9-11, 16-42, 44,45, 48,53-55
Y	NAGAOKA I ET AL: "Evaluation of the expression of human CAP18 gene during neutrophil maturation in the bone marrow." JOURNAL OF LEUKOCYTE BIOLOGY. UNITED STATES DEC 1998, vol. 64, no. 6, December 1998 (1998-12), pages 845-852, XP008025075 ISSN: 0741-5400 the whole document	1-3, 9-11, 16-42, 44,45, 48,53-55
A	MIYAZATO A ET AL: "IDENTIFICATION OF MYELODYSPLASTIC SYNDROME-SPECIFIC GENES BY DNA MICROARRAY ANALYSIS WITH PURIFIED HEMATOPOIETIC STEM CELL FRACTION" BLOOD, W.B.SAUNDERS COMPAGNY, ORLANDO, FL, US, vol. 98, no. 2, 15 July 2001 (2001-07-15), pages 422-427, XP002952629 ISSN: 0006-4971 the whole document	
A	ROSS D T ET AL: "SYSTEMATIC VARIATION IN GENE EXPRESSION PATTERNS IN HUMAN CANCER CELL CEL LINES" NATURE GENETICS, NATURE AMERICA, NEW YORK, US, vol. 24, March 2000 (2000-03), pages 227-235, XP002933374 ISSN: 1061-4036 the whole document	

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BNSDOCID: <WO_____03039443A3_I_>

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 02/12303

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	SORLIE T ET AL: "Gene expression patterns of breast carcinomas distinguish tumor subclasses with clinical implications." PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. UNITED STATES 11 SEP 2001, vol. 98, no. 19, 11 September 2001 (2001-09-11), pages 10869-10874, XP002215483 ISSN: 0027-8424 the whole document	
P,Y	SCHOCH CLAUDIA ET AL: "Acute myeloid leukemias with reciprocal rearrangements can be distinguished by specific gene expression profiles." PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. UNITED STATES 23 JUL 2002, vol. 99, no. 15, 23 July 2002 (2002-07-23), pages 10008-10013, XP002215484 ISSN: 0027-8424 the whole document	1-3, 9-11, 16-42, 44,45, 48,53-55
P,Y	WO 02/24956 A (DANA FARBER CANCER INST INC ;RAMASWAMY SRIDHAR (US); WHITEHEAD BIO) 28 March 2002 (2002-03-28) the whole document	1-3, 9-11, 16-42, 44,45, 48,53-55
P,Y	KOHLMANN A ET AL: "GENE EXPRESSION PROFILES OF DISTINCT AML SUBTYPES IN COMPARISON TO NORMAL BONE MARROW" BLOOD, W.B.SAUNDERS COMPAGNY, ORLANDO, FL, US, vol. 98, no. 11, PART 1, 16 November 2001 (2001-11-16), page 91A,AN380, XP001108980 ISSN: 0006-4971 the whole document	1-3, 9-11, 16-42, 44,45, 48,53-55
P,Y	DUGAS M ET AL: "A comprehensive leukemia database: integration of cytogenetics, molecular genetics and microarray data with clinical information, cytomorphology and immunophenotyping." LEUKEMIA: OFFICIAL JOURNAL OF THE LEUKEMIA SOCIETY OF AMERICA, LEUKEMIA RESEARCH FUND, U.K. ENGLAND DEC 2001, vol. 15, no. 12, December 2001 (2001-12), pages 1805-1810, XP002263731 ISSN: 0887-6924 the whole document	1-3, 9-11, 16-42, 44,45, 48,53-55

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BNSDOCID: <WO_____03039443A3_I_>

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,Y	YEOH E-J ET AL: "Classification, subtype discovery, and prediction of outcome in pediatric acute lymphoblastic leukemia by gene expression profiling" CANCER CELL, XX, US, vol. 1, no. 2, March 2002 (2002-03), pages 133-143, XP002253604 ISSN: 1535-6108 the whole document	1-3, 9-11, 16-42, 44,45, 48,53-55
P,Y	TAVOR SIGAL ET AL: "A model for C/EBPalpha-induced differentiation of BCR-ABL+ CML blast cells" BLOOD, vol. 98, no. 11 Part 1, 16 November 2001 (2001-11-16), page 143a, XP002263225 43rd Annual Meeting of the American Society of Hematology, Part 1;Orlando, Florida, USA; December 07-11, 2001 ISSN: 0006-4971 the whole document	1-3, 9-11, 16-42, 44,45, 48,53-55
P,A	DATABASE GENESEQ [Online] EBI; 14 August 2002 (2002-08-14), BEAZER-BARCLAY ET AL.: "HUMAN cDNA DIFFERENTIALLY EXPRESSED IN GRANULOCYTIC CELLS" XP002263228 Database accession no. ABK84778 abstract	
T	YANG YING-HUA ET AL: "Expression of LL-37/hCAP-18 gene in human leukemia cells." LEUKEMIA RESEARCH, vol. 27, no. 10, October 2003 (2003-10), pages 947-950, XP002263226 ISSN: 0145-2126 (ISSN print) the whole document	1-3, 9-11, 16-42, 44,45, 48,53-55
T	HAFERLACH TORSTEN ET AL: "The Diagnosis of 14 Specific Subtypes of Leukemia Is Possible Based on Gene Expression Profiles: A Study on 263 Patients with AML, ALL, CML, or CLL." BLOOD, vol. 100, no. 11, 16 November 2002 (2002-11-16), page Abstract No. 523, XP002263227 44th Annual Meeting of the American Society of Hematology;Philadelphia, PA, USA; December 06-10, 2002 ISSN: 0006-4971 the whole document	1-3, 9-11, 16-42, 44,45, 48,53-55

-/--

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
T	KOHLMANN ALEXANDER ET AL: "Molecular characterization of acute leukemias by use of microarray technology." GENES, CHROMOSOMES & CANCER. UNITED STATES AUG 2003, vol. 37, no. 4, August 2003 (2003-08), pages 396-405, XP008025253 ISSN: 1045-2257 the whole document	1-3, 9-11, 16-42, 44,45, 48,53-55

BNSDOCID: <WO_____03039443A3_I_>

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP 02/12303

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. [ ] Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. [X] Claims Nos.: 1-3, 9-11,16-42,44,45,48,53-55 (all partially)
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210

3. [ ] Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. [ ] As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. [ ] As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. [ ] As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. [X] No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-3, 9-11, 16-42, 44, 45, 48, 53-55 (all partially)

Remark on Protest

[ ] The additional search fees were accompanied by the applicant's protest.

[ ] No protest accompanied the payment of additional search fees.

BNSDOCID: <WO_____03039443A3_I_>

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1-3, 9-11,16-42,44,45,48,53-55 (all partially)

Claims 1-3, 9-11,16-42,44,45,48,53-55 are directed to methods, kits and compositions which relate to an extremely large number of possible marker groups comprising the CAMP marker. In fact, the claims contain so many possible permutations that a lack of conciseness within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been limited to methods, kits and compositions relating to CAMP as such.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-3, 9-11,16-42,44,45,48,53-55 (all partially)

Invention 1:

Methods relating to diagnosis and therapy of leukemia comprising determining the expression profile of a group of markers in a patient sample characterized in that one marker is CAMP; kit comprising a reagent for assessing the expression profile of CAMP; protein or mRNA, cDNA or cRNA corresponding to CAMP for the treatment of leukemia; a composition comprising a group of markers and substances chemically different to the markers characterized in that the group of markers comprise CAMP.

---

2. claims: 1-55 (all partially)

Inventions 2-3309:

Methods relating to diagnosis and therapy of leukemia comprising determining the expression profile of a group of markers in a patient sample characterized in that one marker is SYNE-1B; kit comprising a reagent for assessing the expression profile of SYNE-1B; protein or mRNA, cDNA or cRNA corresponding to SYNE-1B for the treatment of leukemia; a composition comprising a group of markers and substances chemically different to the markers characterized in that the group of markers comprise SYNE-1B.

..ibidem for each marker listed in tables 1-20,25-27,29,30,32,33,35,36,38,39,41,42

INTERNATIONAL SEARCH REPORT

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